Volume 167 No. 8

Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

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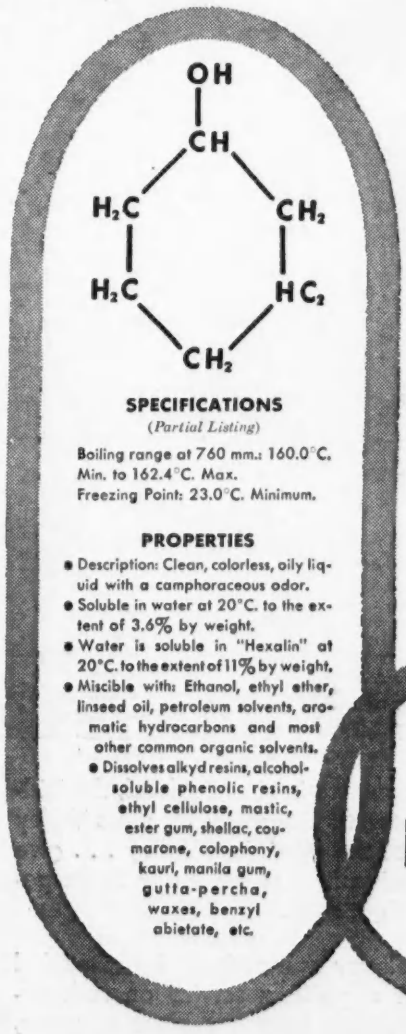

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Oil, Paint and Drug Reporter

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Sulfuric Acid Disposal By Army Is Protested

Current methods employed by the army in disposing of its spent sulfuric acid from the Kankakee arsenal at Joliet, Ill., were protested last week by Chicago acid producers at a conference with officials of the Business and Defense Services Administration.

They told the agency that an existing surplus acid condition in the region is being aggravated by the addition of the ordnance acid to the commercial supply and urged that steps be taken to correct the situation. The army now sells its acid to competitive bidders through its agent, United States Rubber Company.

Producers attending the one-day meeting held varied opinions as to the methods for alleviating the situation. Several alternative solutions were suggested by the group including the following:—

How to Ease Situation

1. Shutting down the arsenal's acid plant and buying oleum from industrial producers, who would take back spent acid.

2. Continuing the sale of spent acid by negotiated sale to producers in the area only.

3. Leasing the army plant to a current producer in the area.

4. Installing a decomposition facility at Joliet.

Both government and industry representatives agreed that if the army adopted any of these alternatives, it probably would sustain increased costs of operation and would have every justification for weighing carefully the advantages that might accrue to industry against the loss that would be felt by taxpayers. It was also pointed out that adoption of one of the alternatives might create a new problem in the industry.

The conferees concluded that it would be advisable to inform the army of the difficulties its present disposal pattern has created in the industry, and to point out the possible alternatives. It was suggested at the same time that the army review the entire disposal problem and consider ways and means of disposing of its acid with less impact on the industry.

Fertilizer Funds to Lebanon

The Foreign Operations Administration last week authorized the purchase of $7,700,000 of fertilizers by Lebanon with FOA funds. The procurement will be carried out through the Emergency Procurement service of the General Services Administration.

The purchases will consist of $1,200,000 of potash fertilizers, $3,800,000 of nitrogenous fertilizers, and $2,700,000 of phosphate fertilizers. The agency also made available $500,000 to Formosa for the purchase of inedible tallow in the United States.

Chemical Additive Measures Introduced by Priest, O'Hara

Two bills amending the federal food, drugs and cosmetic act to provide new controls over the use of chemicals in foods were introduced in the house last week. They were identical in terms and were sponsored by Rep. J. Percy Priest of Tennessee, chairman of the interstate commerce committee, and by Rep. Joseph O'Hara. They are identified as H.R. 4099 and H.R. 4100.

The bills are understood to represent the viewpoint of the group in the food industry which favors prior approval by the Food and Drug Administration of any new chemical substance offered for use in food processing, as against the viewpoint of other segments of the food industry and the chemical industry which favors the use of court injunctions to prevent the use of chemicals that might be hazardous to health.

Introduction of the legislation is believed in some quarters to signify the end of efforts that have been under way for more than a year to get all segments of the food and chemical industries together in a united front on a satisfactory control law. Indications are now that the issue will have to be fought out in the congressional committees and on the house floor.

In a statement accompanying the introduction of his bill, Rep. O'Hara said that it meets the statement of principles on this subject which has been adopted over the past two years by many of the major food industries. He said that the following have adopted these principles:—American Bakers Association; American Institute of Baking; American Farm Bureau Federation; American Meat Institute; Dairy Industry Committee; Institute of Shortening and Edible Oils; Millers' National Federation; National Restaurant Association, and the Grocery Manufacturers of America.

He listed these essential points in the principles adopted by the food industries:—

1. It is the responsibility of the food industry to exert every effort to assure

—Continued on page 40

Nat'l Aniline Division Gets Tax Amortization Certification

Allied Chemical & Dye Corporation's National Aniline Division has been issued a tax amortization certificate covering the investment of $2,118,150 in research and development facilities at Buffalo, N. Y., it was announced last week by the Office of Defense Mobilization. The company was authorized to amortize 45 percent of the cost at an accelerated rate.

The agency also issued a tax certificate to Ethyl Corporation covering an investment of $160,000 in facilities at Edgemoor, Del., for storage of anti-knock additives for aviation gasoline. The accelerated depreciation amount allowed was 90 percent.

FDA Urged to Tighten Regulations On Labeling of Aspirin, Salicylates

Policies of the Food and Drug Administration controlling the labeling of aspirin and other salicylates are expected to be strengthened by the agency as a result of actions taken by a medical advisory panel called into session last week to consider accidental ingestion and misuse of these important preparations by children.

At a one-day conference in Washington February 14, the panel, which was composed of the major producing companies and leading authorities in the field of medicine, adopted the following recommendations:—

Recommendations of Panel

1. The labels of all bottles and packages of salicylate-containing preparations should bear the following minimum statement, clearly visible and in bold-face type:—"Warning: Keep out of the reach of children."

2. In lieu of specific dosage recommendations for children under three years of age, the labeling of salicylate-containing preparations for oral use should bear the following:—"For children under three, consult your physician."

3. This group believes that dosage forms of several strengths of children's aspirin are undesirable and looks with favor on concentration by manufacturers wherever possible on a standard of children's aspirin of one and one-quarter grains per dosage unit.

4. This group looks with favor on manufacturers not increasing their present maximum amounts of children's flavored aspirin per package unit, and encourages seeking development of a safety closure and container.

5. This group looks with favor on wider and more effective use of educational means to inform physicians, pharmacists and consumers of the hazards involved in accidental ingestion of salicylate-containing preparations.

FDA Promises Policy Statement

Dr. Albert H. Holland, jr., medical director of the FDA, stated after the meeting that the recommendations would be given careful study by the staff of the agency and can be expected to lead to a statement of the administration's official views.

The problem of accidental death from excessive amounts of salicylate has long been recognized by government officials,

—Continued on page 70

Chemical Sales This Year to Top 1954 Record by 4 Percent: BDSA

Sales of chemical and allied products in the United States this year should top the 1954 peak level by some 4 percent, reaching an all-time high of $21,000,000,000, according to the January industry report of the chemical and rubber division, Business and Defense Services Administration.

Production likewise is expected to exceed that of 1954 by about 4 percent, and with further capacity from new plants available, increasing competition in the chemicals field is anticipated. Indications are that capital outlays for new plant and equipment by chemical companies this year will approximate $1,200,000,000. This figure is only slightly below 1954 expenditures for capital equipment.

Many areas of the chemicals industry are expected to achieve new highs in 1955. Typical examples of anticipated increases in chemicals are:—

Sulfur and sulfuric acid—Record production of 6,000,000 long tons and 14,000,000 short tons, respectively.

Chlorine — Normal growth in demand equivalent to about 10 percent greater than 1954.

Caustic soda—In a surplus position with only a slight increase in domestic demand, making larger quantities available for export.

Phosphorus and phosphatic chemicals—Continued heavy demand as well as some increase in productive capacity.

Hydrogen peroxide—Demand expected to increase.

Chromium chemicals—Little change in consumption anticipated.

Acetylene and calcium carbide—A slight advance in use expected.

High purity oxygen — Extensive shift from gas to liquid for bulk sales is expected.

Argon—Demand may exceed the 1954 level by about 10 percent.

Fertilizers — Total consumption of all fertilizers during the 1954-55 fertilizer year expected to exceed last year's; probably will establish a record peak this spring.

Pesticides — Increased production and use foreseen in view of new products.

Benzol—Outlook indicates a slight advance in output due chiefly to increased production by petroleum operators.

The anticipated uptrend in economic activity and additional markets resulting from the growing population promise increased sales for the drug industry. Antibiotics, for example, probably will top 1954 by some 10 percent, according to BDSA. Expanded use of vitamins is also anticipated.

Production of plastics materials and cellulosics is expected to continue at a high level, probably surpassing last year's output. Sales of paint products also probably will exceed the 1955 level.

The report states that prices of natural and synthetic rubber are likely to average higher than in 1954, leading to higher prices for manufactured products. As a result of increased volume and currently high prices for natural rubber, manufacturers' sales of rubber products should increase appreciably over 1954.

Expenditures for new plant and equipment by rubber companies may reach $120,000,000 in 1955, only 5 percent below the 1954 total. Pneumatic tire production should top that of 1954 by some 4 to 5 percent, but the output of other rubber goods is expected to show a larger increase.

FTC Order in 'Imdrin' Case Sustained by Supreme Court

The Supreme Court of the United States last week sustained an order of the Federal Trade Commission in the Rhodes Pharmaceutical Company case restricting the advertising claims for its pain-relieving product "Imdrin," but side-stepped the broader question of whether the courts have the right to modify materially a commission order.

In a brief per curium opinion, the court reversed a ruling of the Circuit Court of Appeals that the commission's cease-and-desist order was ambiguous and directed the court to restore the order to its original language. The case reached the supreme court on appeal by FTC from the circuit court's action (OPD, 9/20/54).

Rhodes was charged in a commission complaint that it misrepresented the therapeutic value of "Imdrin" in the treatment of rheumatism and arthritis. A cease-and-desist order prohibited the company from representing that "Imdrin" could do more than afford temporary or partial relief from minor aches, pains or fever. The circuit court modified the order in such a way as to apply the prohibition only to claims of permanent relief or cure.

The FTC claimed that the court was without authority to make such a change in the order and that it had exercised an essential administrative function that belongs to the commission. The courts do not have the authority to substitute their judgment for that of the commission as to the precise scope of relief necessary to protect the public, the commission said.

Rhodes challenged the commission's arguments in this respect and said that the administrative procedures law gives the courts power not only to affirm or reverse an order of the FTC, but also to modify such orders. It cited several cases in support of this contention, but the supreme court preferred to ignore the entire question and limited its decision to disagreeing with the circuit court that, as originally written by the FTC, the cease-and-desist order was ambiguous.

NPC Committee to Study Problems of Oil Imports

A committee to study the petroleum imports problem was established last week by the National Petroleum Council at the request of assistant Secretary of the Interior Felix E. Wormser. Jake L. Hamon of Dallas, Tex., was named chairman and Hines H. Baker, president of Humble Oil & Refining Company, Houston, Tex., was named vice-chairman.

The committee is to make a factual study of petroleum imports including the effect on the domestic industry, the domestic economy, and the national security. When completed, the report and findings will be submitted to the council for action.

Tung Oil Will Be Offered By CCC on Weekly Basis

Commodity Credit Corporation last week announced that, until further notice, limited quantities of CCC stocks of tung oil would be offered for sale weekly on a competitive bid basis through the Cincinnati, Ohio, office of the Commodity Stabilization Service.

The first offering consisted of 480,000 pounds on which bids were received until 10 a.m. February 17. It is anticipated, it was stated, that additional limited quantities will be offered for sale on Thursday of each week until further notice. The agency holds about 38,300,000 pounds of tung oil in storage.

Pyrethrum Extract Suppliers Called to Conference by Gov't

Invitations were extended last week by the Business and Defense Services Administration to the producers and importers of pyrethrum extract to attend a conference February 24 on the proposed disposal of surplus stocks of pyrethrum extract held by the government. Undisclosed in the invitation were the amounts of pyrethrum extract the government proposes to release to the trade and the reason for the action.

Antibiotics Rules Changed

Several amendments to regulations covering the testing and certification of antibiotics were published in the *Federal Register* February 11 by the Food and Drug Administration. The amendments related to part 141b, streptomycin; part 141c, tests and methods of assaying chlortetracycline drugs; part 146b, certification of streptomycin-containing drugs, and part 146c, certification of chlortetracycline drugs.

Narcotic Drugs Listed For Oral Prescription

The Bureau of Narcotics last week made available for industry comment a list of eleven categories of narcotic drugs and preparations for which it believe oral prescriptions may be properly authorized.

Until recently, no narcotic drug or preparation could be dispensed except upon presentation of a written prescription from a physician. Public law 729 enacted last year relaxed this restriction, and the eleven categories drawn up by the agency are aimed at serving as guides in enforcement of the law.

In a covering letter to drug producers and others concerned, the bureau asked that each of the proposed categories be considered from the viewpoint of (a) whether the described drug is proper to be included in any quantity; (b) whether the quantitative limitations specified are proper limitation, and (c) whether additional drugs should be included. In connection with the third approach, the bureau urged the drug industry to keep in mind the safety of the public and the fact that under the law only drugs "possessing relatively little or no addiction liability" may be included.

Basis of Eleven Categories

The eleven categories of narcotics are based on sixty-five communications from interested parties reponding to an earlier bureau request for suggestions of narcotic drugs "possessing little or no addiction liability" which could properly be authorized for dispending by oral prescription. The list follows:—

1. Any isoquinoline alkaloid of opium or any salt of any such isoquinoline alkaloid, alone or in combination with other active, non-narcotic medicinal ingredients.

2. Apomorphine or any salt thereof, alone or in combination with other active, non-narcotic medicinal ingredients.

3. N-allyl-normorphine ("nalorphine," "nalline") or any salt thereof, alone or in combination with other active, non-narcotic medicinal ingredients.

4. Any compound of methylmorphine (codeine) or of any salt thereof with an equal or greater quantity of any isoquinoline opium alkaloid or salt thereof, where the content of methylmorphine or any salt thereof does not exceed four grains per fluid ounce or one-half grain per dosage unit of the compound.

5. Any compound of methylmorphine (codeine) or of any salt thereof with other active non-narcotic ingredients which confer upon the compound medicinal qualities other than those possessed by the methylmorphine or salt alone, where the content of methyl-

—*Continued on page 56*

Antioxidant in Production At American Cyanamid Co.

Full-scale commercial production of the new non-discoloring and non-staining life prolonger for natural and synthetic rubbers, "Antioxidant 425," has been announced by the intermediate and rubber chemicals department of American Cyanamid Company, New York. Its principal use is reported to be for compounding of white and light colored rubber goods.

Chemically, "Antioxidant 425" is 2,2'-methylene bis (4-ethyl-6-tertiary butyl phenol). It is a white crystalline powder with a melting range of 119 to 125 degrees centigrade and a specific gravity of 1.10, the company states. The producer recommends dosages of 0.5 to 1.5 percent "Antioxidant 425" on the rubber hydrocarbon. These quantities are said to give protection against the effects of oven (heat) and oxygen bomb aging.

McKee Plans to Enter Chemicals, Metals Fields

Arthur G. McKee Company, Cleveland, Ohio, industrial design and construction firm, will expand operations into the chemical and nonferrous metals fields, it has been announced by H. R. Moorhouse, secretary and treasurer. "The potential market for our services in these fields is huge and the company has the engineering talent necessary," according to Mr. Moorhouse.

Benzoic Ester Price Reduced

Tennessee Products & Chemical Corporation, Nashville, Tenn., has cut the price of "Benzoflex 9-88" dibenzoate ester of dipropylene glycol) 5 cents per pound. The plasticizer, under the new schedule, is quoted at 27 cents per pound in tank-cars or tank trucks, 29 cents per pound, carload or truckload drums, and 30 cents per cents per pound in less carloads or less truckloads. Prices are f.o.b. Chattanooga, Tenn., freight allowed to destinations east of the Rocky Mountains, drums included.

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Ammonium Nitrate Plant For Brea Now Under Way

Construction has been started on an ammonium nitrate plant to be operated by Brea Chemicals, Inc., a subsidiary of Union Oil Company of California, it has been announced by Homer Reed, Brea president. The new plant, representing an investment in excess of $2,000,000, will be located on a seven and one-half acre site adjacent to the Brea ammonia plant. It will produce approximately 50,000 tons per year of fertilizer grade ammonium nitrate.

Completion is scheduled for mid-summer, 1955, according to Jack Tielrooy, Brea's manager of development, in charge of plant construction. Brea, it was reported, will be the largest Western manufacturer of the product. The new plant will be owned by Amoniaco Corporation and leased to Brea Chemicals for operation. The contractors are Chemical & Industrial Corporation, Cincinnati, Ohio, which will supply the process units, and Macco Corporation, Paramount, Calif., which will provide the off-site facilities and erect the entire plant.

William C. Dabney, Devoe President, Intends to Retire

William C. Dabney, president of Devoe & Raynolds Company, Louisville, Ky., since 1950 and a director since 1938, announced that at the insistence of his doctors he is retiring as president. Mr. Dabney will continue with the company, however, in an advisory capacity.

He was a co-founder of the Jones-Dabney Varnish Company in 1919. This firm, later changed to Jones-Dabney Company, merged with Devoe & Raynolds in 1938, at which time Mr. Dabney became a Devoe director. The following year he was elected president of Jones-Dabney and, in 1940, Devoe vice-president in charge of the railroad and marine plant division. He became executive vice-president of Devoe in 1948, senior vice-president the following year and president in 1950.

Foster D. Snell Acquires Crippen & Erlich Labs

Foster D. Snell, Inc., New York, has purchased Crippen & Erlich Laboratories, Baltimore, Md. The laboratory will operate for the present time as a wholly-owned subsidiary of Snell. Officers of the subsidiary will be:—President, Dr. Foster Dee Snell, head of the Snell organization; vice-president, Chester A. Snell, and secretary-treasurer, Raymond C. Crippen, founder of the Baltimore laboratories.

Mobay Quotations Lowered On Special-Grade Polyesters

An immediate price reduction of 6 cents a pound for special-grade polyester chemicals used in the manufacture of new-type plastic foams was announced last week by Mobay Chemical Company, St. Louis, Mo.

"Multron R-18," specially compounded for combining with isocyanates to form fully elastic foams, will now sell for 59 cents a pound in twenty-drum quantities. Similar price reductions were made for the resin in smaller quantities.

"Multron R-18" and other special polyesters for combining with isocyanates are now being manufactured by Mobay at Anniston, Ala., in an interim plant. Until now, the polyester had been imported from Germany. Mobay is building a full-scale production plant at New Martinsville, W. Va., for the production of both polyesters and isocyanates.

Alcoa Is Expanding Capacity For Its Smelting Operations

Aluminum Company of America, Pittsburgh, Pa., has announced that it is expanding its smelting capacity by approximately 65,000 tons annually. The expansion will be made at Alcoa's works at Rockdale and Point Comfort, Tex., and will lift the company's annual production nearly 10 percent.

Construction will be started at once. Two new smelting pot lines will be added at the Rockdale works and one pot line at Point Comfort, together with necessary related facilities at both locations. This will increase the Rockdale capacity by 45,000 tons of primary aluminum annually and that of Point Comfort by 20,000 tons. Each plant has a present capacity of 90,000 tons annually.

Nitrogen Division Making 50 Percent Formaldehyde

Higher concentration formaldehyde is being produced by Nitrogen Division, Allied Chemical & Dye Corporation, at new facilities recently placed in operation at its South Point, Ohio, plant.

The new facilities, utilizing a process developed in laboratories of Nitrogen Division, reportedly can produce formaldehyde in concentrations up to 50 percent, as may be necessary to meet customer's requirements, reflecting increasing demand for higher concentration product. Formaldehyde was previously made at South Point in concentrations of 37 and 45 percent. The capacity of the plant has also been substantially increased.

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Price Index Advances

The overall OPD price index last week moved forward 0.73 point, to stand at 107.27. Providing the largest measure of strength was the textile and leather chemicals market. Egg albumin flake and yolk, potato starch, and Siam and Brazilian tapioca flour were stronger. There were no reductions in this group. Bay, lavandin, lime and sandalwood oils were firmer. Also advanced in the essential oils, aromatics and flavorings market were cardamom seed, Ceylon cinnamon and Moroccan fenugreek seed. Caraway seed, "0000" cinnamon, East Indian nutmeg and pimento quotations declined.

Crystalized calciferol dropped in the drugs, fine chemicals and botanicals section. There were no other changes among these materials. Bonemeal prices were firmer among agricultural chemicals, while other quotations in this group remained steady. Price activity among coal chemicals was confined to a fractional increase for imported crude naphthalene. This move was not a sudden stroke, but rather a gradual firming of a narrow range carried through previous weeks. Price stability was a feature of the industrial organic chemicals market.

Advances in the oils, fats and waxes group were confined to crude and refined soybean oil. A number of materials declined, including cocoa butter, copra, cottonseed meal, greases, coconut oil, soybean meal, and tallow. The heavy chemicals and petroleum derivatives market both exhibited stable price schedules.

Prices Advanced

Bonemeal, $5 per ton (44).
Cardamom seed, fancy, bold, 5c. per lb. (61).
decorticated, Guatamalan, 20c. per lb.
Cinnamon, Ceylon #2, 1c. per lb. (61).
Egg albumin, flake, 12c. to 18c. per lb. (43).
yolk, 10c. to 12c. per lb.
Fenugreek seed, Moroccan, 1c. per lb. (61).
Gum, dammar, Singapore No. 1, 3c. per lb. (57).
Lard, cash, ⅜c. per lb. (63).
Oil, bay, Puerto Rican, 10c. per lb. (61).
West Indian, 20c. per lb. (61).
Lavandin, 20c. per lb. (61).
Lime, Mexican, 20c. per lb. (61).
West Indian, 20c. per lb. (61).
Linseed, 1 5c. per lb. (63).
Sandalwood, 50c. per lb. (61).
Soybean, crude, ¼c. per lb. (63).
refd., ¼c. per lb. (63).
Potato starch, ½c. per lb. (43).
Tapioca flour, Siam, ship't., ¼c. to ½c. per lb. (43).
Brazilian, ship't., ¼c. per lb.

Prices Reduced

Calciferol, cryst., 15c. per gram (51).
Caraway seed, ¼c. per lb. (61).
Cinnamon, "0000", 2c. per lb. (61).
Cocoa butter, 2c. per lb. (63).
Copra, $2.50 per ton (63).
Cottonseed meal, $2 per ton (63).
Greases, ⅜c. per lb. (63).
Nutmeg, East Indian, 1½c. per lb. (61).
Oil, coconut, crude, ¼c. per lb. (63).
Pimento, 1c. per lb. (61).
Soybean meal, $1 per ton (63).
Tallow, ⅜c. per lb. (63).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100—1949 average)

February 18, 1955	February 11, 1955	February 19, 1954
107.27	106.54	107.17

Int'l Minerals Corp. Buys U.S. Mining, Peerless Perlite

International Minerals & Chemical Corporation, Chicago, has purchased all of the assets of U. S. Mining Company and Peerless Perlite Company, both Los Angeles. Their assets include very large reserves of high quality perlite ore in Inyo County, Calif., a drying and grinding plant near Big Pine, Calif., and a perlite expanding plant in Los Angeles. The properties will be operated by the industrial minerals division of International Minerals, under the supervision of Norman J. Dunbeck, vice-president.

Diamonds Made Synthetically

General Electric Company, Schenectady, N. Y., last week revealed that its scientists are now able to make synthetic diamonds. GE's process involves the use of a fifty-ton hydraulic press which creates a pressure of 1,500,000 pounds per share inch at 5,000 degree Fahrenheit temperature. The diamonds produced by this process thus-far, GE said, weigh less than a thousandth of a carat and are more expensive that those in the naturally-occurring state. However, they are "real" diamonds—they look like diamonds, scratch like diamonds and act like diamonds by chemical and x-ray tests.

Lever Elects Top Officers

Lever Brothers Company, New York, has elected Jervis J. Babb chairman of the board and William H. Burkhart president of the firm. Mr. Babb had been president of Lever Brothers since 1950 and Mr. Burkhart formerly was the executive vice-president.

NACA Maps Program For St. Louis Meeting

Under Secretary of Agriculture True D. Morse will be the principal speaker at the spring meeting of the National Agricultural Chemicals Association, to be held March 7 to 9 at the Chase hotel, St. Louis, Mo. "Better Farming with Agricultural Chemicals" is the theme of the convention.

In addition to Mr. Morse, chief speakers on the program will be Fred Heinkel, president of the Missouri Farmers Association; W. W. Allen, manager of agricultural chemical sales for Dow Chemical Company, Midland, Mich., and NACA president; Prof. Donald A. Wilbur of Kansas State College; John L. Gillis, vice-president of Monsanto Chemical Company, St. Louis, and Lea S. Hitchner, NACA executive secretary.

On a panel discussing herbicides will be Dr. A. E. Carlson of E. I. duPont de Nemours & Co., Wilmington, Del.; Dr. M. W. Parker of Department of Agriculture; Dr. Lloyd Sherwood of Monsanto; Hillard L. Smith of Dow, and Prof. R. D. Sweet of Cornell University.

The relatively new field of soil insecticides will be explored by Dr. O. N. Allen of the University of Wisconsin; Dr. Charles C. Compton of Shell Chemical Corporation, New York; Prof. George W. Decker of the University of Illinois, and Prof. John H. Lilly of Iowa State College.

A lengthy discussion at one session will center around the Miller pesticides law, which was enacted by congress last year. Participants will include Winton B. Rankin of the Food and Drug Administration; Dr. W. G. Reed of the Department of Agriculture; John D. Conner, NACA counsel, and Joseph A. Noone, association technical adviser. Mr. Hitchner will serve as moderator.

R-B-H Dispersions Enlarging Its Bound Brook Installation

The R-B-H Dispersions Division of Interchemical Corporation, New York, has begun construction of new manufacturing and shipping facilities at its Bound Brook, N. J., plant. Two buildings are being erected and are slated for completion by July. A storage and shipping section, and a wing on the main manufacturing building are being added.

A production increase of more than a third is estimated as a result of the new manufacturing wing. Shipping and warehouse space for finished goods will be doubled, the company stated. A storage space for raw materials will be provided on the second floor of the new manufacturing wing.

Oldbury Plant Completed

Oldbury Electro-Chemical Company, New York, has announced that it expects to go into production in March at its phosphorus pentasulfide facilities in New Oldbury, Miss. The facilities were started during the summer of 1954 and were originally planned for the production of sodium chlorate alone. The company has installed equipment to produce the product in solid and ground forms.

Stauffer Eastern Sales Mgr.

Charles Loring has been named eastern district sales manager of the industrial chemicals division of Stauffer Chemical Company and will be in charge of industrial chemical sales in the New England, central Atlantic and southeastern states. Gifford A. Acker takes over Mr. Loring's previous responsibilities in the eastern territory.

Mexican Gulf Sulphur Co. Reports New Improvements

Mexican Gulf Sulphur Company, New York, last week reported completion of new docks and other facilities at its sulfur-producing wells in Coatzacoalcos, Mexico.

Paul Nachtman, president, reported that the company has also completed important additions to its $6,000,000 plant at San Cristobal, Veracruz, Mexico, increasing by about 30 percent the amount of superheated water that can be pumped daily into its sulfur-producing wells.

He said the new water-treating equipment "should materially add to our sulfur production" and that the firm's newly-completed deep-water port facilities on the Gulf of Mexico have enabled the company to "make firm commitments for delivery to the export market . . . not later than March, 1955."

Filtered Rosin Products Planning Refinery in N. J.

Filtered Rosin Products, Inc., will start construction soon on a $300,000 refinery at Fieldsboro, N. J. Sap from southern pine trees will be refined for use in paints and varnishes, paper, chemicals and printing inks.

Mathew L. Rue, jr., manager, said an estimated 25,000,000 pounds of product will be made each year in the plant. Gum tapped from pine trees in Georgia and Florida will be shipped from Brunswick, Ga., in heated barges along the Inland Waterway.

Explosives Transportation Regulations Are Amended

The Interstate Commerce Commission has approved a number of amendments to its regulations covering the transportation of explosives and other dangerous articles which had been recommended by shippers. The action was contained in order No. 18 issued under docket No. 3666.

The commodity list of explosives and other dangerous articles was modified to change the requirements for two products, and to add several additional products. Labeling requirements for tree or weed killing compounds in solid form were modified so as to be classed as oxidizing materials requiring a yellow label and limited to maximum shipments of 100 pounds in a single package. Radioactive materials, n.o.s., were classed as poison D materials requiring a blue or red label denoting radioactive and limited to single shipments of 2,000 millicuries.

Added to the list were the following:—

Allyl trichlorosilane, classed as a corrosive liquid requiring a white label and limited to shipments of not more than ten gallons in a single package.

Cesium 137, cobalt 60 and iridium 192, classed as poison D materials requiring a red poison radioactive label and limited to shipments of not more than 300 curies in a single package.

Cyclohexenyl trichlorosilane, classed as a corrosive liquid requiring a white label and limited to shipments of not more than 10 gallons in a single package.

Ethyl dichlorosilane, classed as a flammable liquid requiring a red label and limited to shipments of not more than ten gallons in a single package.

Nonyl trichlorosilane, classed as a corrosive liquid requiring a white label and limited to shipments of not more than ten gallons in a single package.

Potassium Sulfate Expansion By Int'l Minerals Under Way

International Minerals & Chemical Corporation, Chicago, is expanding its potassium sulfate producing facilities at Carlsad, N. Mex., A. Norman Into, vice-president of the potash division, announced last week.

This latest increase in production will boost output of potassium sulfate by 40,000 tons per year to 150,000 tons annually. Construction has already started, and increased capacity will be available during the coming fertilizer contract year beginning June 1.

International completed a similar increase in potassium sulfate facilities at Carlsbad in February of last year. At that time design work was done for this latest increase. Plans have already been made for another similar increase in capacity as the market demand grows, Mr. Into stated.

Glidden Board Chairman

Dwight P. Joyce has been elected chairman of the board of the Glidden Company, Cleveland, Ohio, a post he will hold in addition to the presidency of the concern. As chairman of the board, Mr. Joyce succeeds to the position filled by his father, the late Adrian D. Joyce, until the latter's death last August. The new chairman and president has served Glidden since 1921. In 1927 he was elected a director and vice-president of the company and placed in charge of all operations of the paint and varnish division. He was elected president of the company in 1947.

AEC Is Making Steady Raw Materials Strides

Production of uranium concentrates during the last half of 1954 went according to schedule, the Atomic Energy Commission noted in its seventeenth semi-annual report. In a review of the raw materials picture, the agency indicated that looked-for output boosts occurred as new domestic and foreign sources started up production.

Construction of new production facilities and expansion of existing units moved ahead in this country and abroad according to plan. Exploration by government agencies and private industry reached record levels, AEC said, adding that research and process development studies into more economical methods of recovering uranium from ores continued.

In this country, the agency said, uranium ore and concentrates output reached new levels. "Uranium mining," AEC pointed out, "now ranks as a major segment of the domestic nonferrous metal mining industry from the standpoint of dollar value of product produced and the number of persons engaged in the industry."

Uranium Ore Tonnage Up

Tonnage of uranium ore produced during the last half of 1954 was up substantially over levels of the preceding six-month period. Also noted was the fact that the uranium production area widened during the period.

"The Colorado Plateau remains the principal domestic source of uranium ore with some production now being obtained from South Dakota and Wyoming and from primary vein sources in the Marysvale, Utah, area," AEC explained. "Occasional ore shipments are made from the Colorado Front Range, the Boulder Batholith region of Montana and from Nevada and California. New mines were opened in Fremont and other counties in western Wyoming and in the vicinity of Globe, Ariz. Uranium ore was also produced at Mauch Chunk (Jim Thorpe), Pa., where the Lehigh Coal & Navigation Company is operating a small uranium mine."

At four locations, AEC reported, there are facilities now in full or limited production for the by-product recovery of uranium during the treatment of Florida phosphate rock. These facilities are Blockson Chemical Company, Joliet, Ill.; Texas City Chemicals, Inc., Texas City, Tex., International Minerals & Chemical Corporation, Bartow, Fla., and Virginia-Car-

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Ammonium Sulfate Facility In India to Add Two Units

Addition of two more units to the ammonia sulfate plant at Sindri, for the manufacture of urea and double salt, has been approved by the Indian government, according to the Department of Commerce. The new units will have capacities of seventy tons and 400 tons a day, respectively.

Construction of the new units, which is to be undertaken by an unidentified European firm, is expected to take three years. The firm is sending a party of fifty technicians to India shortly, and Indian technicians may be sent to Europe for special training.

The Sindri plant is now producing 22,000 long tons of fertilizer a month, against a monthly production target of 29,000 long tons. Reports indicate that even when maximum production is attained, it may be insufficient to meet the growing demand of Indian farmers for chemical fertilizers.

CSC Packaged Drugs Line Is Sold to Reed & Carnrick

Commercial Solvents Corporation, New York, has sold its line of packaged pharmaceutical products to Reed & Carnrick, Jersey City, N. J. Included in the transaction are CSC's line of bacitracin troches, suppositories, ointments and pellets as well as bacitracin-neomycin products and inositol hexanitrate preparations. In announcing the deal, CSC indicated that it will continue to supply bulk pharmaceutical products to the industry through established channels.

Metalead Control to Mullaly

Arthur B. Mullaly, president of Advance Solvents & Chemical Corporation, New York, has purchased control of Metalead Products Corporation, San Francisco. No merger between the respective organizations is contemplated at this time, it was stated. Metalead will continue to serve its consumers through its local representatives.

Nuclear Energy Seen Operating Force In Tenth of New Power Plants in '65

Nuclear energy will be the operating force for one out of ten new power plants built in 1965, George Manov, an industrial specialist with the Atomic Energy Commission, predicted last week. Mr. Manov added that by the year 2000 one-half of the new power plants will rely on atomic energy. He spoke at the opening session of the State Planning and Development Agencies Conference with federal government officials, held under the sponsorship of the area development division of the Department of Commerce.

Emphasizing entirely the peaceful side of atomic development, Dr. Manov further stated that the atomic field has already become big-time business, with over 1,200 industrial firms now supplying the Atomic Energy Commission with essential materials and plant equipment.

Points Out Opportunities

Dr. Manov pointed out the many opportunities available for the individual industrial and business firm, both large and small, for getting into the atomic energy field, and cited AEC publications as key information aids in learning the know-how in going about tapping this source of new industrial growth.

Dr. Manov also briefly outlined the program currently underway by the Atomic Energy Commission and by private industry for construction of nuclear power reactors, the potential size and location of atomic energy markets, and statistics with respect to the cost of atomic energy. Earlier in the session, attended by representatives of twenty-nine state planning and development agencies, Preston Lancaster, jr., assistant to the executive manager, Atomic Industrial Forum, Inc.—an association of 230 atomic industries and research and educational institutions—stressed the role and responsibility of states and communities in atomic development.

"All of these atomic developments mean that each state and each community must in its plans for the future recognize the fact that we are witnessing the birth of what may be the second industrial revolution, that during the next five to ten years, major economic and social changes will be brought about which will profoundly affect the lives of all of us," Mr. Lancaster said.

Beneficial Uses Listed

Mr. Lancaster listed the beneficial uses to which atomic energy is being put to today, and outlined a program under which the average state and community official and the average industrialist and

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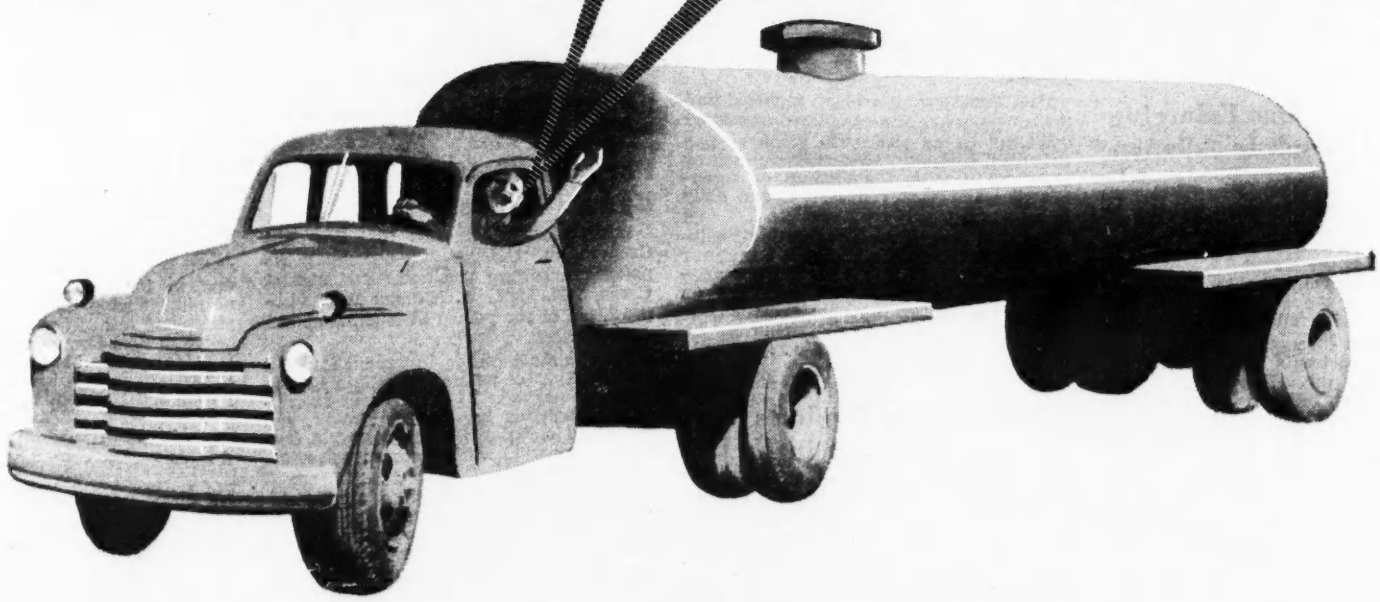
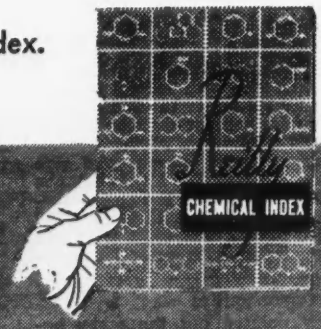
NOW- Reilly delivers 2-VINYLPYRIDINE in tank truck quantities



With increased production of 2-Vinylpyridine Reilly has tank truck quantities over and above those allocated for the rubber industry. This adds up to more Reilly 2-Vinylpyridine for studies on pyridylethylation of cellulose and other uses.

Reilly 4-Vinylpyridine, one of the same family, is also available in commercial quantities.

Send for your copy of the Reilly Chemical Index.



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Association Meetings

This Week

American Paper and Pulp Association, annual convention, Waldorf-Astoria hotel, New York, February 20-24.

Technical Association of the Pulp and Paper Industry, annual meeting, Commodore hotel, New York, February 21-24.

Air Pollution Control Association, annual meeting, Detroit, Mich., May 22-26.

American Association of Textile Chemists and Colorists, Atlantic City, N. J., September 22-25.

American Chemical Society, national meeting, Netherland Plaza hotel, Cincinnati, Ohio, March 29-April 7.

American Drug Manufacturers Association, annual meeting, Boca Raton Club, Boca Raton, Fla., April 13-15.

American Foundation for Pharmaceutical Education, annual meeting, New York, March 3.

American Institute of Chemical Engineers, Kentucky hotel, Louisville, Ky., March 20-23; Shamrock hotel, Houston, Tex., May 1-4; annual meeting, Statler hotel, Detroit, Mich., November 27-30.

American Pharmaceutical Association, annual convention, Miami Beach, Fla., May 1-6.

American Pharmaceutical Manufacturers Association, annual convention, Greenbrier hotel, White Sulphur Springs, W. Va., June 6-8, mid-year meeting, Waldorf-Astoria hotel, New York, December 12-14.

American Society for Testing Materials, annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., June 26-July 1.

American Zinc Institute, annual meeting, Drake hotel, Chicago, April 28-29.

Armed Forces Chemical Association, annual meeting, Cleveland hotel, Cleveland, Ohio, June 16-17.

Association of Consulting Chemists and Chemical Engineers, symposium, Belmont Plaza hotel, New York, April 26; all-day forum and annual meeting, Belmont Plaza hotel, New York, October 25.

Chemical Institute of Canada, protective coatings division conference, Royal York hotel, Toronto, February 24, Ritz Carlton hotel, Montreal, February 25; chemical engineering division conference, Ottawa, March 7-8; annual conference and exhibition, Quebec City, Quebec, May 30-June 1.

Chemical Market Research Association, annual meeting, Plaza hotel, New York, May 18-19.

Chemical Specialties Manufacturers Association, mid-year meeting, Drake hotel, Chicago, May 15-17.

Commercial Chemical Development Association, annual meeting, Statler hotel, New York, March 17.

Drug, Chemical and Allied Trades section of the New York Board of Trade, annual dinner, Waldorf-Astoria hotel, New York, March 3; Pocono Inn, Pocono Manor, Pa., September 22-24.

Federal Wholesale Druggists Association, mid-year meeting, Statler hotel, New York, March 3-4; annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., September 11-14.

Federation of Paint and Varnish Production Clubs, annual meeting, Statler hotel, New York, October 3-6.

Fragrance Foundation, annual meeting, Ambassador hotel, New York, March 24.

Manufacturing Chemists Association, annual outing in conjunction with SOCMA, Greenbrier hotel, White Sulphur Springs, W. Va., June 9-11.

National Air Pollution Symposium, Huntington-Sheraton hotel, Pasadena, Calif., April 18-20.

National Agricultural Chemical Association, spring meeting, Chase hotel, St. Louis, Mo., March 7-9.

National Association of Retail Druggists, annual convention, Atlantic City, N. J., October 16-20.

National Farm Chemurgic Council, annual chemurgic conference, Deshler-Hilton hotel, Columbus, Ohio, March 22-24.

National Paint, Varnish and Lacquer Association, annual convention, Shoreham and Sheraton-Park hotels, Washington, D. C., October 31-November 2.

National Pest Control Association, Pacific Northwest Operators' Conference, Oregon State College, Corvallis, Ore., February 28-March 2.

National Petroleum Association, spring meeting, Cleveland, Ohio, April 13-15; annual meeting, Traymore hotel, Atlantic City, September 14-16

National Plant Food Institute, Greenbrier hotel, White Sulphur Springs, W. Va., June 12-15.

Proprietary Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., May 22-25.

National Vitamin Foundation, symposium, Biltmore hotel, New York, March 1.

Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, William Penn hotel, Pittsburgh, Pa., February 28-March 4.

Society of the Chemical Industry, annual meeting, University of Birmingham, Birmingham, England, July 11-16.

Society of the Plastics Industry, annual meeting and conference, cruise on the Queen of Bermuda, May 7-15.

Synthetic Organic Chemical Manufacturers Association, regular monthly luncheon meeting, Commodore hotel, New York, March 9; annual outing in conjunction with MCA, Greenbrier hotel, White Sulphur Springs, W. Va., June 10-11; annual dinner, Commodore hotel, New York, December 1.

Toilet Goods Association, annual meeting, Waldorf-Astoria hotel, New York, May 10-12.

World Plastics Fair and Trade Exposition, National Guard Armory, Los Angeles, April 6-10.

World Petroleum Congress, Rome, June 6-15.

Chemical Exports Hit Billion Mark in 1954

For the first time on record, United States exports of chemicals and related products went over the $1,000,000,000 mark last year, according to preliminary figures compiled by the Bureau of Census. Imports also were maintained at a high level, though off about $44,000,000 from the previous year.

Bureau figures showed that exports amounted to approximately $1,003,000,000 in 1954, while imports totaled $249,800,000. The nearest approach to the new export record was in 1951 when they reached $977,000,000. Last year's exports compared with $819,000,000 in 1953, $801,000,000 in 1952 and $722,000,000 in 1950.

The import total for 1954 compared with imports of $293,000,000 in 1953, $244,000,000 in 1952, $301,000,000 in 1951 and $170,000,000 in 1950.

Although exports of all merchandise last year continued at a high level, they failed to set a new record and fell back to slightly more than the 1951 total. Exports for the year were valued at $15,073,400,000, or about 4 percent below the 1953 total of $15,773,800,000. M.S.F. (military) exports amounted to $2,255,000,000 as compared with $3,511,300,000 in 1953.

The 1954 total for imports was $10,206,700,000, or a level about 6 percent below the 1953 total of $10,873,300,000. Exports of chemicals and related products for the month of December alone varied only slightly from the November total, while imports were up $3,000,000. Exports amounted to $86,100,000 last December compared with $86,200,000 in November. Imports rose from $17,600,000 in November to $20,600,000 in December.

Fats, Oils, Oilseed Exports Show Increase of 20 Percent

Exports of fats, oils and oilseeds were estimated last week by the Foreign Agricultural Service to have reached a total of $230,000,000 in the July-January period, or about 20 percent greater than during the previous period. Prominent in the gains, it was stated, were lard, tallow, soybeans, flaxseed, and cottonseed oil, while soybean oil fell behind.

In general, the United States has ample supplies of fats, oils, and oilseeds and is offering them at world prices, but some exports from the United States are moving out at higher prices, reflecting the improved world market demand. Recent sales for export by CCC have been made at prices well above those of earlier sales, FAS noted.

July-November shipments of lard ran 28 percent ahead of the like period of 1953. The increase was due to greater hog slaughter coupled with larger yields. As a result, prices have been declining since last summer; prices of loose lard in January were somewhat below prices for soybean oil. Another factor in larger lard sales is the apparent smaller exportable supplies in other ares.

While higher prices of tallow caused the July-November value this year to ex-

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Chemical Progress Week To Be Marked May 16-21

The Manufacturing Chemists' Association has announced that the second annual Chemical Progress Week will be held this year from May 16 through 21. In communities in which chemical installations exist, observances will be held to bring home to the American public the importance of the chemical industry in terms of everyday life.

Through use of the slogan, "A Better America Through Chemical Progress," speeches, advertising, publicity, radio-TV appearances, plant tours and special programs with schools, the entire chemical industry will explain the contribution of chemicals to the nation's economy, health and defense.

Zinc Group to Study Market April 28, 29 at Annual Parley

The American Zinc Institute has announced that its annual meeting will be held at the Drake hotel, Chicago, April 28 and 29. On April 28 reviews of the lead and zinc markets, supply and requirements, and mine reserves will be specially featured.

On the afternoon of April 28 and the morning of April 29, guest speakers will appraise the general business outlook and Washington news. Reports will also be presented on the 1955 outlook for the products which carry zinc to market including galvanized sheets, die castings, brass goods, and zinc anodes.

CCDA Honor Award Winner

Kenneth R. Brown, vice-president of Atlas Powder Company, Wilmington, Del., has been awarded the 1955 honor award of the Commercial Chemical Development Association. Mr. Brown, who will receive the award March 17 at a CCDA dinner in his honor at the Statler hotel, New York, is being cited for his pioneering work in the development and marketing of sorbitol and related products.

Atomic Industry Conclave In San Francisco April 4-5

The Atomic Industrial Forum and the Stanford Research Institute will jointly sponsor a meeting on "Atomic Energy—the New Industrial Frontier" April 4 and 5 at the Mark Hopkins hotel in San Francisco.

The program of the meeting will include discussions by such authorities on atomic energy as Dr. Glenn Seaborg, Nobel-prize winning chemist of the University of California; Dr. Bruce Morgan, technical director of the Quartermaster Corps' food sterilization program; Dr. Edward Teller, outstanding research physicist and an expert on atomic safety; Jesse Johnson, director of the Atomic Energy Commission's raw materials division; Dr. Chauncey Starr, director of the atomic energy department of North American Aviation, Inc.; Dr. R. P. Peterson, director of atomic energy research for the Republic Steel Corporation, and Dr. Melvin Calvin, leading authority on photosynthesis.

AIC Gold Medal Will Go To Dr. Marvel of U. of Ill.

Dr. Carl S. Marvel, research professor of organic chemistry at the University of Illinois, has been unanimously chosen to receive the 1955 gold medal of The American Institute of Chemists. The award is being made in recognition of Dr. Marvel's "noteworthy and outstanding service to chemists through his teaching for many years and because of his noteworthy research in the field of organic chemistry."

Presentation of the medal will be made at the thirty-second annual meeting of the institute, to be held in Chicago, May 11 through 13. Dr. Marvel's research materially aided the United States' production of synthetic rubber and antimalarials, especially during World War II. He is a former president of the American Chemical Society.

Fragrance Foundation Holds Its Convention on March 24

The Fragrance Foundation will hold its sixth annual convention March 24 in the Ambassador hotel, New York. All organizations and individuals interested in the fragrance industry are invited to attend.

The business meeting, at which election of officers and directors will take place, will be held at 10 a.m. in the Trianon Room. At 10:30 a.m. a report will be made concerning the entire fragrance industry. A reception will follow at 11:30, and luncheon will be served at 12:30. The afternoon program will begin at 1:50 p.m. It is planned that the convention will end at 2:30 p.m. Reservations may be made through foundation offices, 1 East 53d street, New York 22.

Oil Chemists Meet in April

The American Oil Chemists' Society will hold its forty-sixth annual meeting at the Roosevelt hotel, New Orleans, La., April 17 through 20.

Pasadena Air Pollution Symposium Is Planned

A program of twenty-three technical papers has been established for the Third National Air Pollution Symposium to be held April 18 through 20 at the Huntington-Sheraton hotel, Pasadena, Calif.

Co-sponsoring the symposium are Stanford Research Institute, California Institute of Technology, University of Southern California, University of California at Los Angeles the Southern California Air Pollution Foundation and the Air Pollution Control Association of Pittsburgh, Pa.

Four papers will be presented in the general session: "Global Aspects of Air Pollution as Checked by Damage to Vegetation," Dr. Frits W. Went of the California Institute of Technology; "Air Pollution Situation in Los Angeles—An Aerometric Survey," Dr. Lauren B. Hitchcock, president of the Southern California Air Pollution Foundation; "A Comparison of Particulate Loadings in the Atmosphere of Certain American Cities," Dr. Leslie A. Chambers, and Dr. Milton J. Foter, Robert A. Taft Sanitary Engineering Center, Cincinnati, and Dr. Jacob Cholak, Kettering Laboratory, University of Cincinnati. "Pollution Levels in Relation to the Movement of Pollution in the Los Angeles Atmosphere" will be the subject of G. P. Larson, W. J. Hamming and J. Richard Taylor of the Los Angeles County Air Pollution Control District.

Papers on Technics

Papers on analytical technics and instrumentation will include:—"The Spectral Radiant Energy from the Sun Through Varying Degrees of Smog at Los Angeles, "Dr. Ralph Stair, National Bureau of Standards and Dr. David M. Gates, University of Denver; "Preliminary Evaluation of the Microwave Method as a Tool for Studying the Composition and Formation of Smog, "Dr. W. D. Hershberger, University of California at Los Angeles.

Also, "Fractionation and Analysis on a Micro Scale by Gas Chromatography," Dr. H. W. Patton and J. S. Lewis, Tennessee Eastman Company; "An Experimental Instrument for Continuous Measurement of the Concentrations of Olefins in Air," Dr. Robert R. Austin, Chaney Laboratories, Inc., and the Los Angeles County Air Pollution Control District.

And, "Sampling Periods of Air Pollution Evaluations," Dr. Maynard E. Smith and Dr. Irving A. Singer, Brookhaven National Laboratory; "Automatic Counting and Sizing of Aerosol Particles," Dr. M. A. Fisher and Dr. Sidney Katz, Armour Research Foundation. "Use of Thermal Precipitator and Electron Microscope for Evaluation of Air-Borne Particulates," H. C. Froula, A. F. Bush and E. S. C. Bowler, University of California at Los Angeles, and "The Design of Aerosol Particle Counters," Dr. Frank T. Gucker, jr., Indiana University and Donald G. Rose, Johns Hopkins University.

Effects on Plants

Papers dealing with effects of air pollution on plants will include:—"The Effects of Hydrogen Fluoride and Sodium Fluoride on Plants as Measured by Photosynthesis," Dr. Moyer D. Thomas, Stanford Research Institute, and Louis V. Olson and Dr. Russell H. Hendricks, American Smelting & Refining Company; "The Use of Weeds as a Means of Evalu-

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Chemical Institute of Canada Conference Will Attract 700

Upwards of 700 chemists and chemical engineers are expected to attend the thirty-eighth annual conference of the Chemical Institute of Canada in Quebec City, May 30 through June 1. The occasion will also mark the founding of the institute ten years ago as a result of an amalgamation of several predecessor organizations whose histories date back to 1902.

Featured events at this year's conference will include the award of the 1955 Chemical Institute of Canada medal to an outstanding chemist, as well as two special lectures by prominent scientists. About 100 papers by authorities in their fields will be presented in such subjects as agricultural chemistry, analytical chemistry, biochemistry, chemical education, chemical engineering, organic and physical chemistry, and protective coatings.

SOCMA Sets Date for Dinner

The board of governors of the Synthetic Organic Chemical Manufacturers Association has selected December 1 as the date for the organization's annual dinner this year. The event will be held at the Commodore hotel, New York.

Merck Vitamin B_{12}

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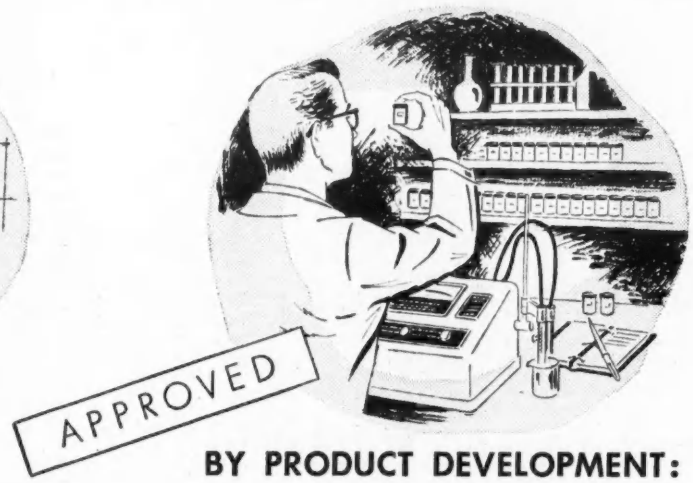

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RAHWAY, NEW JERSEY

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Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, February 18 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

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A

Acacia (see Gum arabic)

Acenaphthene, below 92.5 C., m.p., cms works lb .40 —
above 92.5 C., m.p., bbls., dms., works lb .41 .50

Acetaldehyde, 99%, dms., c.l., frt. equald lb .1250 .1435
c.l. frt equald lb .1350- .1515
tanks frt equald lb .1050- .1300

Acetaldol (see Aldol)

Acetanilide, tech., bbls., c.l., dlvd lb. .29 - —
ton lots lb. .30 —
smaller lots lb. .30½ —
USP bbls. 2,000 lb lots lb .80 —
smaller lots lb .81 .86

Acetic anhydride, dms., c.l., dlvd E. lb .15½ —
t.c.l. dlvd E lb. .17 —
tanks dlvd E lb. 14 —

Acetoacetanilide, fib. dms., c.l., dlvd lb. .30 - —
t.c.l., dlvd lb. .31 - —

Acetoacet-o-chloroanilide, fib., dms., c.l., dlvd lb. 1.35 - —
t.c.l., dlvd lb. 1.36 - —

Acetoacet-o-toluidide, fib. dms., c.l., dlvd lb. .82 - —
t.c.l., dlvd lb. .83 - —

Acetone, CP, dms., c.l., dlvd lb. .09½- —
t.c.l. dlvd. lb. .10½- —
tanks, dlvd. lb. .07½- —

Acetonitrile, dms., c.l., works lb. .45 - —
t.c.l., works lb. .47 - —

Acetophenetidin, USP, bbls., works, frt. equald lb. 1.17 - 1.19

Acetophenone, cns. cms lb 1.21 1.35
tech., dms., t.c.l., works lb. 75 —

N-Acetyl-p-aminophenol, dms., f.t. adjusted lb 1.75 1.85

Acetyltributyl citrate, tech., dms., c.l., works lb. .33½- —
t.c.l., works lb. .34½- .38½
tanks, works lb. .32 - —

Acetyltriethyl citrate, tech., dms., c.l., works lb. .37½- —
t.c.l., works lb. .38½- —
tanks, works lb. .36 - —

Acid abietic, coml., dms., c.l., works lb. 12 —
t.c.l., ex whse lb. .1490- —
cryst., dms. c.l. works lb. .06½- —
t.c.l. works lb .07 .07½

Acetic, coml., or redist., 28%, bbls 100 lbs. 4.80 - —
56%, bbls 100 lbs 8.25 - —
70%, bbls 100 lbs. 9.95 - —
80% bbls 100 lbs.10.45 - —
glacial, syn., CP, dms., dlvd. 100 lbs 15.00 -16.00
tech., dms., c.l., dlvd 100 lbs.12.00 - —
t.c.l., same basis 100 lbs.13.00 - —
tanks, dlvd 100 lbs.10.00 - —
USP, cbys., inclusive, dlvd., 100 lbs 24.00 -25.00

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP special bbls., makers, primary distrib., 1,000-lb. lots, point of shipt lb. .63 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (80 mesh), bbls., 1,000-lb. lots. lb. .58 - .60

Freight equald, shipt, identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib, dms., c.l., dlvd lb. .35 - —
t.c.l., dlvd lb. .37¾- —

Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75

p-Aminobenzoic, tech., dms., works lb. 1.74 - 1.77

USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works lb. 2.55 - 2.60

p-Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb. 4.05 - 4.50

Anthranilic, bbls., frt. equald lb. 1.21 - —

Arsenous, tech., (see Arsenic, white). USP (see Arsenic trioxide).

Ascorbic USP dms. 25-50 kilo lots kilo.16.00 - —
10-kilo lots kilo.16.35 - —
5-kilo lots kilo.16.75 - —
bots 1-kilo lots kilo.17.00 - —
500-gram lots kilo.17.50 - —

Battery, cbys. c.l., works, E 100 lbs. 2.35 - —
t.c.l., works, E 100 lbs. 2.65 - 3.45

Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms. 100-lb. lots or more lb. .54 - —

Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).

Betaoxynaphthoic (see Acid, b-Oxynaphthoic).

Boric, tech. 99½%, cryst., bgs., c.l., works ton.124.25- —
ton lots, ex whse., N. Y. or Chi ton.172.00- —
smaller lots, same basis, ton.177.00- —
bbls., c.l., works ton.148 75- —
ton lots, ex whse., N. Y. or Chi ton.196.50- —
smaller lots, same basis. ton.201.50- —
gran., bgs., c.l., works ton.99 25 - —
ton lots, ex whse., N. Y. or Chi ton.147.00- —
smaller lots, same basis, ton.152.00- —
bbls., c.l., works ton.123 75- —
ton lots, ex whse., N. Y. or Chi ton.171.50- —
smaller lots, same basis. ton.176.50- —
bulk, c.l., works ton.94.25 - —

Acid, boric, tech., powd., bgs., c.l., works ton 104 25 —
ton lots, ex whse., N. Y. or Chi ton 152 00- —
smaller lots, same basis. ton 157 00- —
bbls., c.l., works ton.128 75 - —
ton lots, ex whse., N. Y. or Chi ton.176 50- —
smaller lots, same basis. ton 181 50- —

Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric acid $25 per ton higher.

Broenners, bbls lb. 1.76 —

Butyric, 99% dms. c.l., works, lb. .34 —
t.c.l. works lb. .34½- —
tanks, works lb. .32½- —

Cacodylic, bots lb 10.50 13.00

Camphoric, nat., dms lb 4.00 4.75
syn., dms. lb. 4.00 4.75

Capric, dms lb. .23¾- .25½

Caprylic, dms lb. .23¾- .25½

Cassella, dms., frt. alld., 100% basis lb. 1.44 - 1.75

Castor oil, split, dms lb. .35½- .36

Chicago, bbls frt alld lb. 3.21 - —

Chloroacetic, mono-, purif., flake, 99%, dms lb. .23½- .25½
tech., flake 96-97%, frt. equald, dms lb. .20 .21

o-Chlorobenzoic, fib dms., works lb. 1.13 - —

p-Chlorobenzoic, fib dms., works lb. 1.59 1.62

Chlorosulfonic, dms., c.l., frt. equald lb. .0465- —
t.c.l. frt equald lb. .0515- —
tanks, frt equald lb. .0415- —

Acid, chlorosulfonic, in stainless steel dms. ½c per lb higher.

Cholic, 100-lb. lots, fib. dms. lb. 6.00 6.25

Chromic 99¾% dms., c.l., works lb. .27½ —
t.c.l., works lb. .28 .29

NF (see Chromium trioxide).

Cinnamic, refd., bots lb. 2.50 3.50

Citric, USP, anhyd., gran., fine cryst., dms., c.l. lb. .28¾- —
10,000-lb. lots, 1 shipt. lb. .29¼- —
smaller lots lb. .29¾- .31¼

Acid, citric, USP, hydrous, gran., fine gran., dms., c.l lb. .27 - —
10,000-lb lots, 1 shipt, o 27½- —
smaller lots 28 - 29½

Powdered citric acid ½c higher

Cleve's, mixed, bbls lb. .79 - —

Coconut oil, dist., dms lb. .25¼- .27
tanks lb. .23½- —
dbl dist., dms lb. .25 - .27¾
tanks lb. .24¼- —

Corn oil, dist., dms lb. .15½- .17¼
tanks lb. .1350- —

Cottonseed oil, dist., dms lb. .1500- .1675
tanks lb. .1325- —

2,3-Cresotic, dms., ton lots, works, lb. .66 - —
smaller lots lb. 1.82 - 2.00

Cresylic, coaltar dom., 50% 207 C or above, ref. dms. c.l., frt. equald gal. .98 - —
t.c.l. same basis gal. 1.03 - —
non-ref. dms. c.l., same basis gal. 1.01 - —
t.c.l. same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
204° to 207° C., ref., dms., c.l. same basis gal. 1.03 - —
t.c.l. same basis gal. 1.08 - —
non-ref. dms. c.l. same basis gal. 1.06 - —
t.c.l. same basis gal. 1.09 - —
tanks, same basis gal. .95 - —
Imp. 75% at 215 C. or over, dms. ex whse gal. .75 - .90

petroleum, dom., 195° to 213° C., non-ref., 65 dms. to c.l., works, San Francisco and Los Angeles gal. .71 - —
t.c.l. same basis gal .73 - .75
tanks, works, frt. alld. E. gal. .71 - —
209° C. to 222° C., tanks, Wilmington, Cal gal. .62 - .69
211° C. to 236° C., non-ref., dms., c.l., San Francisco and Los Angeles gal. .63 - —
t.c.l., same basis gal. .65 - .67
tanks, same basis gal. .50 - —
220° C. to 242° C., tanks, Wilmington, Cal gal. .54 - .59
245° C. to 258° C., tanks, Wilmington, Cal gal. .50 - —

Crotonic, fib. dms., 200 lbs. or more, works lb. .50 - —

Cyanoacetic, tech., bbls lb. .99 - 1.25

Dehydrocholic, injection, fib dms. 100-lb. lots lb.14.75 - —
oral, fib. dms., 100-lb. lots lb.10.25 - —

Acid, desoxycholic, fib. dms., 100-lb. lots lb.15.00 - —

Dichlorophenoxyacetic (see under D 2,4-D).

Diethylbarbituric (see Barbital).

Digitoxic, hgs works lb 14 —

2-ethyl hexoic, dms., c.l., works lb. .36½- —
t.c.l., works lb. .37½- —
tanks, works lb. .34½- —

F, crude, paste, bbls. works lb 2.10 - —

Folic, bots fib cns kilo lots or more gram. 1.40 - —

Formic, 85%, cbys., c.l., works lb. 1570- —
t.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. 1625- —
t.c.l. works lb. 1675- .1775

Fumaric, tech., bgs., dms lb. .27 .28

Gallic, NF VII, bbls. 1,000-lb lots lb. .70 —
smaller lots lb 1.32 - 2.00
tech., bbls., 1,000-lb. lots lb. 1.58 - —
smaller lots lb 1.69 1.78

Gamma, dry, grd., bbls., frt. alld. lb. 1.50 - —
paste, bbls. frt alld lb 1.45 - —

Gentisic, 100-lb. fib. dms lb 8.50 - —

Gluconic, tech., 50% bots lb. .25 - .35
cbys. lb. .19 —
dms. lb. .15½- —

l-Glutamic, 99½% fib. dms., 100 lb lots works lb 2.45 2.53
25 lb. lots, works lb 2.54 2.60

Glycerophosphoric, 35%, dms., works lb. 2.25 - 2.35

Glycolic (see Acid hydroxyacetic).

H, dry, bbls., works, 100% basis, lb. 82 - —
paste, bbls., works, 100% basis, lb 80 - —

Hydriodic, 1.50 s.g., cbys lb 2.94 - —
1.70 s.g., cbys lb 3.23 - —

Hydrobromic, medicinal, 48%, cbys, dlvd E lb .37 - .43

Hydrochloric, anhyd. (see Hydrogen chloride).

18° cbys., c.l., works 100 lbs. 2.50 - —
t.c.l., dlvd Metropolitan area 100 lbs. 2.90 3.05
tanks, works, frt equald ton.23.00 - —
20° cbys., c.l., works 100 lbs. 2.75 - —
t.c.l. dlvd Metropolitan area 100 lbs. 3.15 - 4.00
tanks, works, frt equald ton.20.00 - —
22° cbys., c.l., works 100 lbs. 3.25 - —
t.c.l. dlvd Metropolitan area 100 lbs. 3.65 - 4.50
tanks, works, frt equald ton.35.00 - —
CP, USP, consumers, cbys., extra c.l. works lb. 11¾- —
t.c.l. same basis lb 13¼ 13¾
5-pint bots., extra, cs., c.l., same basis lb 16¾ —
t.c.l., same basis lb. .18¼- .19¼

Acid, hydrochloric, CP, USP prices to dealers 1c per lb less.

Hydrocyanic, cyls. frt. alld lb .75 .95
dilute NF 2% 5-lb bots lb .40 —

Hydrofluoric, anhyd. (see Hydrogen fluoride).

Hydrofluosilicic, basis 30%, dms., works lb. .09 —

Hydroxyacetic, tech., 70%, non-ref. bbls., Phila., 100% basis lb. .136 - —
tanks, Belle, W. Va., 100% basis lb. .095 - —

Hypophosphorus, purif., 50%, cbys lb 1.30 1.32
USP, cbys lb .83 —

Isonicotinic, 100 lb fib dms. works lb. 5.00 - —

Hydrazide (see Isoniazid).

J, bbls., works, 100% basis lb 2.50 - 2.85

Koch, bbls., frt. alld lb. .64 - .70

L, bbls., works lb. 1.25 - —

Lactic, edible, 50%, bbls., 20 or more lb. .20 - —
smaller lots lb. .205 - .21
80%, bbls., 5 or more lb. .364 - —
smaller lots lb. .369 - .3699
USP, 85%, cbys lb. .88 - —
plastic grade, 50%, bbls., 20 or more, works lb. .2175- —
1 to 19 lb. .2225- —
80%, bbls., 5 or more lb. .3815- .3813
tech., 22%, bbls., c.l., works 100 lbs. 6.30 - —
t.c.l., works 100 lbs 6.70 - —
cbys., t.c.l., works 100 lbs.12.20 —
44%, bbls., c.l., works 100 lbs.11.95 -11.98
t.c.l., works 100 lbs.12.35 -12.50

Laurent's, bbls lb. .60 - —

Lauric, 90%, dms lb. .35¼- .37

Linseed oil, dist., dms lb. .1785- —
w. w., dms lb. .2085- —

Maleic, cryst., powd., dms lb. .37 - .38

Malic, tech., dms lb. .70 - —

Mandelic, NF, dms., 1,000-lb. lots. lb. 2.35 - —
smaller lots lb. 2.40 - 2.50

Metanilic, dms., works lb. .57 - .75

Methacrylic, glacial, 98%, dms., truckloads, works lb. .54½- —
smaller lots, works lb. .55 - —

Molybdic, 85-92%, dms., works lb. 1.32 - —

Monochloroacetic, purif. (see Acid, Chloroacetic mono-).

Muriatic (see Acid, hydrochloric).

Myristic, dms lb. .28 - .29¼

Naphthenic, 220-230 acidity, dms., works lb. .13¼- —
tanks, works lb. .11¼- —

Naphthol (1)-4-sulfonic (see Acid Nevile and Winthers).

Naphthol(1)-5-sulfonic (see Acid, L).

Naphthol(1)-5-sulfonic,8-amino (see Acid, S).

Naphthol(1)-3,6-disulfonic,8-amino (see Acid H).

Naphthol(2)-6,8-disulfonic (see Acid, Gamma)

(5)-7-Sulfonic,2-amino (see Acid, J).

Naphtholsulfonic, mixed (see Acid, Cleve's, mixed).

Naphthylamine(1)-5-sulfonic (see Acid, Laurent's).
(2)-6-sulfonic (see Acid, Broenner's).
(2)-7-sulfonic (see Acid, F).
(2)-1-sulfonic (see Acid, Tobias).

Abbreviations
Used in OPD Market Quotations

alld.	allowed	distr.	distributor	NNR	New and Nonofficial Remedies
amorph.	amorphous	djns.	demijohns	No.	number
AMP	American melting point	dlvd.	delivered	nom.	nominal
anhyd.	anhydrous	dms.	drums	o-	ortho
a.p.a.	available phosphoric acid	dom.	domestic	ord.	ordinary
approx.	approximately	E	east	oz.	ounce
artif.	artificial	e.p.	end point	p-	para
ASTM	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
Atl.	Atlantic	exp.	expressed	pf.	proof
Be.	Baume	F.	fahrenheit	phos.	phosphate
bbls.	barrels	ferment.	fermentation	photo.	photographic
bgs.	bags	f.f.a.	free fatty acid	pkgs.	packages
bls	bales	f.f.c.	free from chlorine	powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	f.p.a.	free of prussic acid	pt.	point
b.r.	boiling range	frt.	freight	pulv.	pulverized
bxs.	boxes	gal.	gallon	purif.	purified
C.	centigrade	gran.	granular	redist.	redistilled
cbys.	carboys	grd.	ground	refd.	refined
CD	completely denatured	i.&a.	iron and aluminum	refy.	refinery
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	reg.	regular
cks.	casks	imp.	imported	resub.	resublimed
c.l.	carlots	incl.	included	ret.	returnable
cns.	cans	indust.	industrial	SD	specially denatured
coml.	commercial	kgs.	kegs	s.d.	single distilled
conc.	concentrated	l-	laevo	S E.	southeast
CP	chemically pure	lacq.	lacquer	sec.	secondary
cps.	centipoises	lb.	pound	secs.	seconds
cryst.	crystal	l.c.l.	less than carlots	s.g.	specific gravity
cs.	cases	l.t.l.	less truckload	ship't	shipment
ctns.	cartons	liq.	liquid	soln.	solution
cyls.	cylinders	mfrs.	manufacturers	s.u.	standard unit
d-	dextro	m-	meta	syn.	synthetic
dbl.	double	m.a.p.	mixed aniline point	tanks.	railroad tankcars
denat.	denatured	min.	minimum	tech.	technical
dest-dist.	destructive-distilled	m.p.	melting point	tert-	tertiary
dl-	dextro-laevo	N-	nitrogen	t.l.	truck loads
dist.	distilled	n-	normal	t.w.	tank wagons
		nat.	natural	USP	U. S. Pharmacopoeia
		neut.	neutral	vis.	viscosity
		NF	National Formulary	VM&P	varnish makers & painters
				W.	west
				whse.	warehouse
				w. w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, Nevile & Winther's—Alcohol, Diacetone

Acid, Nevile and Winther's, dms., frt. alld lb 1.20 - —
Nicotinic, USP, dms., frt. adjustment cost 9.00 9.30
Amide, USP, (see Nicotinamide).
Nitric 36° Be chys. c.l., works, E 100 lbs. 5.75 - —
l.c.l., works, E 100 lbs. 6.05 6.85
38° Be chys., c.l., works, E 100 lbs. 6.25 - —
l.c.l., works, E 100 lbs. 6.55 - 7.35
40° Be, chys., c.l., works, E 100 lbs. 6.75 - —
l.c.l., works, E 100 lbs. 7.05 - 7.85
42° Be chys., c.l., works, E 100 lbs. 7.25 - —
l.c.l., works, E 100 lbs. 7.55 - 8.35
58.5 to 68% HNO3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO3, tanks, works, 100% basis 100 lbs. 4.90 - —
CP, NF, consumers, chys., extra c.l., works lb. 13½ - —
l.c.l., same basis lb. .15 - .15½
5 pint bottles extra, c.s., c.l., same basis lb. .17½ - —
l.c.l. same basis lb. .19 - .25
p-Nitrobenzoic, dms., c.l., works lb. .72 - —
l.c.l., works lb. .73 - —
Oleic, s.d., dms lb. .1775- .1950
tanks lb. .1600- —
dbl. dist., (white), dms lb. .2025- .22
tanks lb. .1850- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3-Cresotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —

Acid, b-oxynaphthoic, bbls., works, lb. 1.14 - —
Palm oil, dbl., dist., dms lb. .14½- .16¼
Para-aminobenzoic (see Acid, p-Aminobenzoic)
Para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst. cns. lb .75 - 1.70
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, food grade, 75%, chys. c.l., works 100 lbs 7.30 - —
l.c.l., works 100 lbs. 7.80 - 8.30
tanks, works 100 lbs. 5.10 - —
NF, 85%, chys., c.l., works lb. .08½- —
l.c.l. works lb. .09 - .09½
Picric, NF, bbls. lb. .60 - —
tech., bbls. lb. .34 - .35
Propionic, syn., pure, dms., c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
tanks, works lb. .19 - —
Pyrogallic, NF, (see Pyrogallol).
tech., bbls lb. 2.76 - 2.99
Ricinoleic (see Acid, castor oil, split)
S., bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms lb. .37 - —
sublimed, tech., fib. dms., c.l. lb. .39 - —
l.c.l. lb. .46 - —
dyestuffs grade, fib. dms lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powd., fib. dms lb. .53 - —
Sebacic, purif., dms., c.l., works, lb. .64 - —
l.c.l., works lb. .66 - .70

Acid, soybean oil, dbl. dist., dms. lb. .1775- .20
tanks lb. .1600- —
s.d., dms lb. .1625- .1775
tanks lb. .14½- —
Stearic, dbl. pressed, bgs lb. .1475- .1650
single pressed, bgs lb. .1425- .1575
triple-pressed, bgs lb. .1700- .1950
Succinic, purif., cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be chys. c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
tanks works ton 18.60 - —
66° Be. chys., c.l., works 100 lbs. 2.25 - —
l.c.l., works 100 lbs 2.55 - 3.35
tanks, works ton 22.35 - —
98%, tanks, works ton 23.50 - —
99-100%, tanks, works ton 23.95 - —
CP, NF, consumers chys. extra, c.l., works frt. equald lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5 pt. bots., extra cs. c.l., works frt equald lb. .13¼ —
l.c.l. same basis lb .14¾- .20¾
oleum, 20%, tanks, works ton 25.00 - —
40% tanks, works ton 29.00 - —
65% tanks works ton 39 50 - —
Tallow, dist., dms lb. .14½- .1625
hydrogenated, bgs lb. .1375- .16
Tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 1.59 - 1.60
smaller lots lb. 1.65 - 1.76
powd., bbls., 1,000-lb. lots lb. 1.50 - —
smaller lots lb. 1.51 - 1.69
tech., dms lb. .95 - —

Acid, tartaric, USP, dom., 230 or 250-lb. dms., c.l. lb. .41 - —
10,000-lb. lots, 1 shipt. lb. .41½- —
smaller lots lb. .42 - —
100-lb. dms lb. .43 - —
small dms lb. .45 - .51
imp., bgs lb. .36½ Nom.
Thioglycolic, refd., chys., 100% basis lb. 1.35 - 1.55
Tobias, bbls., frt. alld lb. .74 - —
Toluenesulfonic, dms., c.l., works, lb. .16 - —
l.c.l., works lb. .17½- —
p-Toluene sulfonic, monohydrate, dms., c.l., or t.l. lb. .90 - —
125 lbs. to t.l. lb. 1.00 - —
p-Toluidine-m-sulfonic, bbls., works lb. .92 1.04
Trichloroacetic, bots. lb 2.00 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5T)
Tungstic, tech., kgs., works lb. 4.25 - —
Undecylenic, dms lb. 1.40 - —
Aconite root, bls lb. .50 .55
Aconitine, cryst., potent, bots oz. 78.00 - 85.00
Acrolein, tech., dms., c.l., works lb. .47 - —
l.c.l., works lb. .47½- —
Acrylonitrile, dms., c.l., works lb. .33 - —
l.c.l., works lb. .34 - —
tanks, works lb. .31 - —
ACTH, cryst., bulk, 1,000 units/gram, bots gram 15 00 - —
Adeps lanae (see Lanolin)
Adrenocorticotropic hormone (see ACTH).
Agar, USP Kobe No. 1, strip, bls. lb. 2.90 3.10
powdered, 30 mesh fine, dms lb. 3.40 - 3.50
dl-Alanine, dms., works lb 8.50 - 11 00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms c.l lb. 65 90
Egg, edible, flake, bbls lb. 1.76 - 1.82
powd., bbls lb. 1.80 - 1.86
tech., cryst., bbls lb. .76 - .85
Alcohol, allyl, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°-132° C., dms., l.c.l., dlvd lb. .43 - —
ACS grade dms., c.l., dlvd lb. .45 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld lb. .17 - —
l.c.l., frt. alld lb. .18 - —
tanks, frt. alld lb. .15 - —
primary, dms., c.l., frt. alld. lb. .19¼- —
l.c.l., frt. alld lb. .20¼- —
tanks, frt. alld lb. .17¼- —
sec-synthetic, dms., c.l., frt. alld., works lb. .18 - —
l.c.l., works lb. .19 - —
tanks, works lb. .16 - —
tert-synthetic, dms., c.l., frt. alld. E lb. .17 - —
l.c.l., frt. alld. E lb. .18 - —
tanks, frt. alld. E lb. .15 - —
1-pentanol, (syn. normal), dms., c.l., works lb. .42 - —
l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl, ferment., dms., l.c., frt. alld lb. .15 - —
l.c.l., frt. alld lb. .16 - —
tanks, frt. alld lb. .13 - —
n-syntnetic, dms., c.l., dlvd. lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
sec-synthetic, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, works lb. .12 - —
Capryl, 85%, dms., c.l., works lb. .18 - —
l.c.l. works lb. .18½- —
tanks, works lb. .16½- —
95%, dms., c.l., works lb. .19½- —
l.c.l., works lb. .20 - —
tanks, works lb. .18 - —
Cetyl, extra hp. cns., 500-lb. lots or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF, hb. cns., 140-lb lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.15 - 2.75
Decyl, bots lb. 1.75 - 2.00
indust. (see 1-Decanol).
Denat., CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis. gal. .59½- .65¼
tanks, dlvd. same basis. gal. .41½- —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.

Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.

SD1, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66¼
tanks, same basis gal. .42½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66¼
tanks, same basis gal. .42½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis gal. .59½- .65¼
tanks, same basis gal. .41½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD40, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —

West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon and Washington, where a 5c. differential on tankcars is maintained.

Diacetone, acetone-free, dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .11½- —

Put This Plant Behind Your Product

Here at Publicker, we maintain that users of our products can no more afford to take chances with quality than we can. Consequently, every drop in every gallon or tank car is exactly according to specifications—always. And Publicker's ultra-modern equipment and vast facilities account for outstanding service to a long list of satisfied customers. May we have the opportunity of meeting *your* requirements?

BUTYL ACETATE, NORMAL
BUTYL ALCOHOL, NORMAL
ETHYL ACETATE
ETHYL ALCOHOL
AMYL ACETATE
FUSEL OIL, REFINED
ACETONE C.P.
PACO SOLVENT T.R. 590
ISOAMYL ALCOHOL

PUBLICKER INDUSTRIES Inc.

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NEW YORK & NEW ENGLAND DISTRIBUTOR, PUBLICKER ALCOHOL & CHEMICALS SALES CORPORATION

PHILADELPHIA—LOCUST 4-1400 • PITTSBURGH—LOCUST 1-8527 • NEW YORK—OXFORD 5-4160 • BOSTON—HOMESTEAD 9-0022

Alcohol, ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal. 20.48 - —
l.c.l., same basis gal. 20.53 - 20.59
tanks, same basis gal. 20.35 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies, gal. 21.58 - —
l.c.l. same basis gal. 21.63 - 21.69
tanks, same basis gal. 21.45 - —
2-Ethylbutyl, dms., c.l., works lb. .29½- —
c.l. works lb. .30 - —
tanks, works lb. .28 - —
2-Ethylhexyl, dms., c.l., dlvd. E lb. .23¾- —
c.l., same basis lb. .24¾- —
tanks, same basis lb. .21¾- —
Furfuryl ens., works lb. .29 - —
dms., c.l., Cedar Rapids, Ia lb. .21 - —
Newark, N. J lb. .21½- —
l.c.l. Cedar Rapids, Ia lb. .22 - —
Newark, N. J lb. .22½- —
tanks, Memphis, Tenn lb. .184 - —
Isoamyl, dms., c.l., works, frt. alld. E lb. .34 - —
l.c.l., same basis lb. .35 - —
tanks, same basis lb. .32 - —
Isobutyl, dms., c.l., dlvd lb. .14 - —
l.c.l. dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd. E lb. .23 - —
l.c.l. dlvd. E lb. .24 - —
tanks, dlvd E lb. .21 - —
Isopropyl, refd., 91%, dms., c.l., dlvd gal. .48 - —
l.c.l. dlvd gal. .55 - —
tanks, dlvd gal. .35 - —
95% dms., c.l., dlvd gal. .50 - —
l.c.l. dlvd gal. .57 - —
tanks, dlvd gal. .37 - —
99%, dms., c.l., dlvd gal. .52 - —
l.c.l., dlvd gal. .59 - —
tanks, dlvd gal. .39 - —
Lauryl, bots lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methylisobutyl).
Octyl, perfumers grade, bots lb. 1.75 - 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms lb. 1.14 - 1.45
standard, dms lb. 1.26 - 1.35
n-Propyl, dms., c.l., dlvd lb. .12 - —
c.l. dlvd lb. .13 - —
tanks, dlvd lb. .10 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Iowa lb. .54 - —
dms., c.l., Niagara Falls, N. Y. lb. .44½- —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .47 - —
tanks, Niagara Falls, N. Y. lb. .43 - —
Indust grade dms., c.l., Niagara Falls, N. Y lb. .305 - —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .33 - —
tanks, Niagara Falls, N. Y lb. .29 - —
Wood (see Methanol).
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms gal. 2.15 - —
Aldrin, tech., fib. dms., c.l., t.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .85 - —
Aletris root, bgs lb. 1.75 - 1.85
Algin (see Sodium alginate).
Allethrin, 90%, dms., frt. alld lb. 28.80 - 28.90
soln., 20%, dms., 200-2,000 lb. lots, frt. alld lb. 6.50 - 6.55
2½%, dms., frt. alld lb. .95 - 1.00
Allspice (see Pimento).
Allyl bromide, cbys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd lb. .17 - —
l.c.l., dlvd lb. .18 - —
tanks, dlvd lb. .15 - —
Starch, solid, dms., works lb. .52¾- .54¾
solution, 40%, toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs lb. .40 - —
powd., cs. lb. .50 - —
Curacao, kgs. lb. .50 - .55
Socotrine, kgs. lb. No prices
Aloin, USP, bbls., dms., kgs lb. 3.75 - 3.82
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt, dms lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Potassium, gran., bgs., works. 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt, dms lb. .20 - .21
hydrous, dms lb. .07¾- .08
Potash-chrome, dms lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
l.c.l. works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works. lb. .0385- —
l.c.l., works lb. .0410- .0510
Aluminum acetate, basic soln., 24°, bbls., l.c.l., works lb. .14 - —
Chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .15 - —
l.c.l., works, frt. equald. lb. .1550- —
cryst., dms., c.l., works lb. .1450- —
l.c.l., works lb. .1500- —
soln., 32°, cbys., c.l., works lb. .0445- —
l.c.l., works lb. .0520- .1295
tanks, works 100 lbs. 3.45 - —
NF, gran., dms., works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. .15¾- —
l.c.l., works lb. .16¾- .18¾
Aluminum fluoride in fib. dms. 0.35c. per lb. higher.
Formate, basic soln., cbys. lb. .09½- —
l.c.l., works lb. .10 - —
Hydrate, heavy bgs., c.l., frt. equald lb. .0285- —
2,000-20,000 lb. lots, same basis lb. .041 - —
bulk, same basis lb. .026 - —
light bgs. dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3 fib dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3 fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP. XIV, fib., dms., works lb. .82½- —
contract, works lb. .79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .232 - —
pigs, 10,000-lb. lots, frt. alld. lb. .215 - —
Oxide, amorphous (see Alumina, calcined)
Paste lining, extra fine, dms lb. .63½- —
standard, 200-lb. dms lb. .43 - —

Aluminum powder, lining, extra fine, dms lb. 1.02½- —
standard, 250-lb. dms lb. .72 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c per lb for 100-lb dm., 1½c per lb for 50 lb dm 3c per lb for 10-lb can and 5c to 12c per lb for smaller containers. Deduct 1c per lb for single shipment of 500 to 1,499 lbs 2c for 1,500 to 4,999 lbs. 3c for 5,000 to 29,999 lbs. and 4c for 30,000 lbs or more Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over

Resinate, precip., 2.1% Al, dms., frt. alld lb. .30½- —
Stearate, dibasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
monobasic ctns c.l lb. .33 - —
l.c.l. lb. .34 - .37
tribasic ctns. c.l lb. .33 - —
l.c.l lb. .34 - .37
Sulfate, coml., bulk, c.l., works. 100 lbs. 1.85 - —
grd., bgs., c.l., works ton 37.00 - —
lump, bgs., c.l., works ton 40.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.55 - —
l.c.l., works frt equald 100 lbs. 3.95 - —
USP, gran., dms., works lb. 16 - 18
powd., dms., works lb. .22 - .24
Trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 8.00 - 10.00
Aminoazotoluene, base, bbls., 100% basis lb. 1.03 - 1.18
o-Aminobiphenyl, dms., c.l., works. lb. .32½- —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —

Aminoethyl ethanolamine, dms., c.l., dlvd lb. 46¼- —
l.c.l. dlvd. lb. .45 - —
tanks, dlvd lb. .45 - —
2-Amino-2-methyl-1-propanol, cns., dms., works lb. .60 - —
m-Aminophenol, dist., dms., ton lots. lb 2.05 - —
smaller lots lb 2.50 - —
p-Aminophenol, dms., frt. alld lb. .97 - .98
Aminophylline, USP 100-lb. dms lb. 3.55 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald ton 85.00 - 88.00
pure cyls., extra, zone 1 lb. 18½- —
2 lb. .19 - —
3 lb. .19½- .20
4 lb. .20 - —
5 lb. .21 - —
refrigeration tanks, works, frt. equald ton 87.50 - 90.50
Aqueous (29.4% NH_3), dms., c.l., dlvd. Metropolitan area 100 lbs. 3.60 - —
l.c.l., works 100 lbs 4.00 - —
tanks, works, anhyd. basis ton 96.00 - —
Ammoniac, sal, gray, bgs., c.l., works, frt equald 100 lbs 8.25 - —
l.c.l. same basis 100 lbs 8.65 - 11.15
white gran. (see Ammonium chloride, tech.)
Ammoniacal liquor, tanks, works, anhyd basis ton 96.00 - —
Ammonium acetate, purif., dms lb. .53 - —
Benzoate, USP, dms., kgs., 4,000-lb. lots frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, gran., dms., c.l., works. ton 317.00 - —
ton lots, ex whse. ton 390.50 - —
smaller lots, ex whse. ton 395.50 - —

Alcohol, Ethyl—Ammonium Pentaborate

Ammonium bicarbonate, dom., dms., c.l. works 100 lbs. 6.50 - —
l.c.l. works 100 lbs. 8.00 - —
imp., dms., l.c.l. lb. .07¼- .08½
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd lb. .2145- .2245
Bromide, NF, gran., bbls lb. .38 - .39
dms. lb. .39 - .42
Powdered ammonium bromide 10c. per lb. higher.
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech., white, fines, gran., bgs., c.l., works 100 lbs. 5.25 - —
l.c.l. works 100 lbs. 7.00 - —
USP, gran., bbls., dms lb. .17¼- —
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .50 - .65
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia, aqueous).
Hypophosphite, NF, dms lb. 3.07 - —
Iodide, NF, dms., bots lb. 4.26 - 4.38
Linoleate, 50%, dms., works lb. .50 - .55
Nitrate, dom., fertilizer grade, 33.5% N., bgs., western, works, frt. equald ton. 68.00 - 70.00
with dolomite, 20.5% N, bgs., Hopewell, Va ton. 51.00 - —
imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equal to $6 per ton. 74.50 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton. 84.89 - —
Oxalate, fine gran., dms lb. .26½- .31
Pentaborate, gran., dms., c.l., works ton 227.00 - —
ton lots, ex whse ton. 300.50 - —
smaller lots, ex whse ton. 305.50 - —
Ammonium pentaborate powder, $10 per ton higher.

With the completion of the $20,000.000 expansion program at Sterlington, La., CSC is producing anhydrous ammonia at double its former capacity. It establishes CSC as a leading, basic source of ammonia for the chemical industries and assures you of a dependable source of supply of anhydrous ammonia on a year-round basis.

Versatile as a raw material and in processing operations, CSC anhydrous ammonia, technical and refrigeration grades, is being used in the fields of Resins, Textiles, Metals, Rubber, Explosives, Petroleum, Refrigeration, Dyes, Water Purification, Fermentation and as an ideal Neutralizing Agent.

CSC Anhydrous Liquid Ammonia is available in tank cars containing approximately 52,000 pounds of ammonia. Write, wire or phone us today for latest Technical Data Sheet and 48-page Ammonia Bulletin. Industrial Chemicals Sales Department, Commercial Solvents Corporation, 260 Madison Avenue, New York 16, N. Y.

COMMERCIAL SOLVENTS CORPORATION

CSC INDUSTRIAL CHEMICALS

Ammonium Perchlorate—Calcium Mandelate

Ammonium perchlorate, kgs., works, lb. .50 - .75
Persulfate, kgs lb. .38 - —
Phosphate, coml., bgs., c.l., works, frt. equald lb. .0865- —
t.c.l. same basis lb. .09 - —
dibasic, NF V bots. dms lb. .45 - —
tech., bgs. c.l. works, frt. equald lb. .0865- —
l.c.l., same basis lb. 0915- —
Salicylate, NF, dms., kgs lb. 1.62 - 1.64
Silicofluoride dms works lb. .11 - .12
Sulfamate, bbls., bgs., c.l., t.l., works lb. .18 - —
l.c.l., works lb. .22 - —
Sulfate, coke-oven, bulk, producing ovens ton 42.00 - 47.50
syn., bgs., c.l., western, works, ton 44.00 - —
bulk, works ton 42.00 - —
purif., dms., works .08½- .10
Sulfide, liq., 40-44%, dms., c.l., frt. equald., 100% basis, ton 240.00 - —
t.c.l., works, 100% basis, ton 300.00 - —
tanks frt alld., 100% basis, ton 180.00 - —
Sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
t.c.l., works lb. .22 - .26
Thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.55
highly purif., cbys., 100% basis, lb. 1.70 1.96
Thiosulfate, cryst., photo grade, fib dms., frt alld lb. .65 —
60% soln., dms., c.l., works lb. .05½- —
d-Amphetamine hydrochloride dibasic, bots lb. 28.00 - —
dl, dms lb. 6.00 - —
d-monobasic, bots lb. 28.00 - —
d-Phosphate, dibasic, bots lb. 28.00 - —
dl, dms lb. 6.00 - —
d-Sulfate, dms lb. 28.00 - —
dl, dms lb. 6.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., frt. alld. E. of Rockies lb. .22 - —
t.c.l., same basis lb. .23 - —
tanks, same basis lb. .20 - —
ex pentane, reg., dms., c.l., dlvd. lb. .17 - —
t.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
tech., dms., c.l., dlvd. lb. .15 - —
t.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
Alcohol (see Alcohol amyl).
n-butyrate, dms. lb. .90 - 1.25
Cinnamic aldehyde, dms lb. 1.70 - 2.00
Nitrite, USP, bots lb. 1.75 1.83
Salicylate, cns., dms lb. .74 1.05
o-tert-Amyl phenol, dms., c.l., works, lb. .43¾- —
t.c.l., works lb. .46¾- —
tanks, works lb. .41¾- —
p-tert-Amyl phenol, dms., c.l., works, lb. .24¾- —
t.c.l., works lb. .25¾- —
tanks, works lb. .23¾- —
Anethole, NF, cns., dms lb. 1.65 - —
tech., dms lb. .75 - 1.20
Angelica root, dom., bls lb. .60 - .70
Aniline oil, dms, c.l., works, frt. alld., lb. .21 - —
t.c.l., works, frt. alld lb. .22 - —
tanks, works, frt. alld lb. .20 - —
Aniline salt, cms., c.l., truckloads, 20,000 lbs., min., frt. alld. lb. .31 - —
t.c.l., same basis lb. .33 - —
Anise, Mexican, bgs. lb. .37 - —
Spanish, bgs. lb. .42 - —
Syrian, bgs. lb. No prices.
Anisic aldehyde, bots., dms lb. 2.30 - 2.70
o-Anisidine, dms., works lb. .88 - —
p-Anisidine, dms., works lb. .97 - —
Annatto seed, whole, bgs. lb. .24 - —
powd., dms. lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works lb. .70 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls, c.l., frt. alld lb. .83 - —
t.c.l., same basis lb. .86 - —
electrical grade, bbls., t.c.l., same basis lb. .91 - —
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. 28½- —
cs., c.l., mines lb. .29 - —
Oxide, bgs., c.l., frt. alld lb. .29 - —
t.c.l. frt. alld lb. 30½- —
Sulfide, approx. 60%, bgs., dlvd lb. .27 - .30
Trichloride, anhyd., pails, c.l., works lb. .38½- —
t.c.l., works lb. .40½- —
USP, powd., dms lb. .64 - .65
Antimony-potassium tartrate, tech., gran., powd., dms lb. .59 - .62
Antipyrine, NF, dms lb. 2.50 2.70
Apomorphine hydrochloride, USP, bots oz. 23.40 - 23.90
Areca nuts, powd., bbls lb .15 .16
Arecoline hydrobromide, NF, bots, tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms., 1-kilo lots kilo 74.80 - 83.00
Arnica flowers (true montana), bls. lb. 3.00 Nom.
Arsenic metal, lump, bbls., ex whse. lb. .54 - —
Trioxide, USP dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
t.c.l., dlvd lb. .06½- .07½
Asafetida, es lb. .36 - .39
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton 1,300.00- —
No. 2, c.l. (20 tons), mines ton 675.00 - —
Run-of-mine, c.l., (20 tons), mines ton 356.00 - —
3K, c.l. (20 tons), mines ton 436.00 - —
3R, c.l. (20 tons), mines ton 371.00 - —
3T, c.l. (20 tons), mines ton 348.00 - —
4Z, c.l. (20 tons), mines ton 321.00 - —
4K, c.l. (20 tons), mines ton 173.00 - —
4M, c.l. (20 tons), mines ton 173.00 - —
4T, c.l. (20 tons), mines ton 156.00 - —
4Z, c.l. (20 tons), mines ton 156.00 - —
5D, c.l. (20 tons), mines ton 122.50 - —
5K, c.l. (20 tons), mines ton 122.50 - —
5M, c.l. (20 tons), mines ton 116.50 - —
5R, c.l. (20 tons), mines ton 110.00 - —
6D, c.l. (30 tons), mines ton 78.00 - —
7D, c.l. (30 tons), mines ton 68.50 - —
7F, c.l., (30 tons), mines ton 65.00 - —
7H, c.l. (30 tons), mines ton 55.00 - —
7K, c.l. (30 tons), mines ton 46.00 - —
7M, c.l., (30 tons), mines ton 40.00 - —
7R, c.l. (30 tons), mines ton 39.00 - —
7RF, c.l. (30 tons), mines ton 40.00 - —
7T, c.l. (30 tons), mines ton 37.00 - —
7TF, c.l. (30 tons) mines ton 40.00 - —
7S, c.l., (30 tons), mines ton 27.00 - —
Asbestos c.l. prices are in U. S. funds, t.c.l., lots, $4 per ton higher.

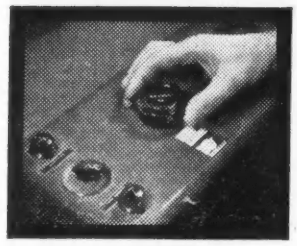
Asphalt gilsonite, black, jet, bgs., c.l., mines ton 37.00 - —
select, 350° F., fusing pt., bgs., c.l., mines ton 38.00 - —
270°-295° F., fusing pt., bgs., c.l., mines ton 37.00 - —
seconds, 300° 390° F. fusing pt., bgs., c.l., mines ton 32.00 - —
Manjak, No. 10, crude, dms., works lb. .06¼- —
Petroleum, cut-back, tanks, tankwagon, refy gal. .09 - —
emulsion, tanks, tankwagon, refy gal. .09½- .10
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton 21.00 - —
85-300 penetration, tanks, tankwagon, refy ton 20.00 - —
Aspirin (see Acid, acetylsalicylic).
Atropine, USP, bots oz. 6.25 - 6.75
Sulfate, USP, bots oz. 4.00 - 4.20

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units, less than 1,000,000,000 units 50,000 units. .70 - —
Balm of Gilead buds, dried, bgs lb. 1.35 1.45
Barberry root, bark, bags lb. .28 .30
Barbital, USP, 100-lb dms lb 4.50 —
Sodium, USP, dms lb 4.75 4.77
Barium carbonate, precip., bgs., c.l., works ton 92.50 - —
smaller lots works ton 102.50 - —
Chlorate, kgs., works lb .32 .36
Chloride, anhyd., bgs., c.l., works, ton 158.00 - —
t.c.l. works ton 168.00 - —
NF, cryst., cms lb. .18 - —
tech., cryst., dms., c.l., works, 100 lbs. 6.00 - —
t.c.l. works 100 lbs. 6.50 - —
Chromate, bgs., frt. equald lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate cryst., bgs ton 180.00 190.00
Monoxide (see Oxide).
Nitrate bbls., c.l., works lb. .12½- —
t.c.l. works lb. .14 —
Oxide, grd., dms., c.l., frt. equald, ton 255.00 - —
t.c.l. works ton 265.00 - —
Peroxide dms. works lb. .16 - —
Stearate, cns., c.l., frt. and lb. .37 - —
t.c.l. same basis lb. .38 - .42
Sulfate, tech. (see Barytes and Blanc fixe).
X-ray, dms lb 14 - .14½
Sulfide, dms., c.l., works ton 85.00 - —
t.c.l., works ton 95.00 - —
Barytes, Southern off-color, bgs., mines ton 25.00 - —
95-75% bgs. mines ton 25.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton 41.60 - —
ex whse N Y ton 60.10 - —
Bauxite, bulk, mines ton. 9.50 10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .35 - .37
root, bls lb. .45 - .50
Bentonite, dom. 200 mesh bgs., c.l., mines ton 14.00 - —
imp., Italian, white, high gel., bgs., 5-ton lots, ex whse ton 80.60 - —
1 ton lots ex whse ton 83.10 - —
low gel, bgs., 5 ton-lots, ex whse ton 78.95 - —
1 ton lots ex whse ton 81.45 - —
Benzal chloride, cbys., works lb. .22 - .23½
Benzaldenyde, NF dms lb. .74 1.05
tech., cbys. dms lb. .44 - —
Benzene (see Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., bgs., dms. c.l. works, gamma unit-lb. .0075- .009
t.c.l. works, gamma unit-lb. .015 —
wet dust distributors, dms., c.l., dlvd., gamma unit-lb. .02 - —
t.c.l., dlvd., gamma unit-lb. .021 - —
Benzidine hydrochloride, bbls., frt. alld., 100% basis lb. 1.00 - —
Benzocaine, dms lb 3.48 3.50
Benzol, pure or nitration, tanks, works
Bethlehem, Pa. gal. .36 - —
Birmingham district gal. .36 - —
Chicago district gal. .36 - —
Cleveland district gal. .36 - —
Geneva, Utah gal. .36 - —
Johnstown, Pa. gal. .36 - —
Lackawanna, N. Y. gal. .36 - —
Lone Star, Texas gal. .36 - —
Lorain, Ohio gal. .36 - —
Minnequa, Colo. gal. .35 - —
Philadelphia district gal. .36 - —
Pittsburgh district gal. .36 - —
Sparrows Point, Md. gal. .36 - —
Syracuse, N. Y. gal. .36 - —
Terre Haute, Ind. gal. .36 - —
Youngstown, Ohio gal. .36 - —
Benzophenone dms lb. 1.40 1.70
Benzotrichloride, cbys., frt. equald, lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .22 - —
t.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —
Peroxide, purif., fib. dms., 30 to 1,000-lb. lots, works lb. .93 - 1.08
Benzyl acetate, t.f.c., cns. dms lb. .62 - 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP, t.f.c., cns., dms lb. .62 - 1.10
Chloride, tech., 12-gal. cbys., dms., c.l., works, frt. equald lb. .23 - —
t.c.l., same basis lb. .24 - —
tank trucks, same basis lb. .21 - —
A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. in steel dms. prices were ½c. lower.
Cinnamate, cns. lb. 3.35 - 3.90
Formate, cns lb 1.20 2.50
Isoeugenol, cns. lb. 8.60 - 9.10
Propionate, bots. lb. 1.35 - 1.65
Salicylate, bots. lb. 1.50 - 1.85
Benzylidine acetone, bots lb. 1.68 - 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, cns. lb. 35.00 - 36.25
Hydrochloride, bots lb. 35.00 - 36.25
Betagammapicoline (see b-g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene).
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical).
Biotin cryst., bots gram. 10.00 - —
Biphenyl (see Dipnenyl).
Bismuth chloride, jars lb. 5.11 - —
Hydroxide, dms. lb. 4.65 - —
Metal, bxs., ton lots lb. 2.25 - —
Nitrate, cryst., dms lb. 2.10 - 2.17
Oxide, anhyd., dms lb. 4.47 - 5.05
Oxychloride, dms. lb. 4.37 - 4.42
Phenolsulfonate, fib. dms lb. 5.22 - —
Subcarbonate, USP, dms lb. 3.20 - —
Subgallate, NF, fib. dms lb. 3.15 - —
Subiodide, fib. dms. lb. 5.37 - —
Subnitrate, NF, dms lb. 2.65 - —
Subsalicylate, USP, dms lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Black, acetylene, bgs., c.l., duty and freight extra lb. .17 - —
cs., l.c.l., ex whse. lb. .22½- .26
Ash (see Barium sulfide).
Bone, dms. l.c.l., frt. alld lb. .17 - .23¼
Pacific coast bone black prices, 2c. per lb. higher
Carbon, channel, pigment, high color, beads, ctns., c.l., works, lb. .72 - —
l.c.l., dlvd. or whse. lb. .78 - —
medium color, uncompressed, bgs., c.l., works, lb. .12 - —
l.c.l., dlvd. or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works lb. .074 - —
l.c.l., works lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works, lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .122 - .125
high modulus, bgs., c.l., works, lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., cns., l.c.l., whse lb. .085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works, lb. .12¾- —
t.c.l., works lb. .13 - —
Lamp, bgs., c.l., works lb. .16 - .45
Mineral, bgs., works lb. .0160- .0675
Blackberry root bark, bls lb. .45 - —
Black haw root bark, bls lb. .63 - .65
tree bark, bls lb. .40 - .45
Blanc fixe, dry, byproduct, bgs. c.l., works ton 190.00 - —
t.c.l., works ton 200.00 - —
direct process, bgs. c.l., works ton 100.00 - —
l.c.l., works ton 110.00 - —
N. Y. whse ton 140.88 -165.00
Bleaching powder, dms., c.l., works, 100 lbs. 5.02 - —
t.c.l., works 100 lbs. 6.52 - —
blood, dried, 16-16½% ammonia, bgs. unit-ton 6.50 - —
high-grade unground, 16-17% ammonia, bgs., Chicago, unit-ton 7.00 - —
soluble, bgs., c.l. lb. .15 - .16½
t.c.l. lb. .17½- .22½
Bloodroot, bls. lb. .48 - .50
Blue alkali, dry, bbls., dlvd. N. or Tenn. and N. C., & of Miss R. including St. Paul Minneapolis, Davenport, Rock Island, St. Louis lb. 2.00 - —
toner bbls. tithe flushed same basis lb. 1.15 - —
Chinese, bbls., same basis lb. .49 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA, bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 3.85 - —
Milori, bbls., same basis lb. .49 - —
Peacock, fugitive, 100% color strength, bbls., same basis lb. .75 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls same basis lb. .58 - —
Prussian, insoluble, bbls., same basis lb. .49 - —
soluble, bbls., same basis lb. .49 - —
Soda, CP, bronze, bbls., same basis lb. .56 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis, lb. .16½- .18½
reg. types, dry, bbls., same basis, lb. .22½- .35
Victoria toner, molybdated, PMA, bbls lb. 4.10 - —
tungstated, PTMA, bbls lb. 5.00 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Vitrol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works E ton 75.00 - —
Los Angeles ton 82.00 - —
Bone phosphate defluorinated (see D) of lime (see Calcium phosphate, tribasic).
precipatated (see Calcium phosphate tribasic, NF, precip.).
Borax, tech., anhyd., bgs., c.l., works, ton 78.00 - —
ton lots ex whse. N. Y. or Chicago ton 125.75 - —
bulk c.l. works ton 70.00 - —
cryst. 99½%, bgs., c.l., works, ton 67.25 - —
ton lots, ex-whse., N. Y. or Chi ton 115.00 - —
smaller lots, same basis, ton 120.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton 41.25 - —
ton lots, ex whse., N. Y., Chi ton 89.00 - —
smaller lots, same basis, ton 94.00 - —
bulk, c.l., works ton 35.75 - —
pentahydrate, 99½%, bgs., c.l., works ton 55.50 - —
ton lots, ex whse., N.Y., Chi ton 108.25 - —
smaller lots, same basis, ton 103.25 - —
powd., 99½%, bgs. ton 46.25 - —
ton lots, ex-whse., N. Y. or Chi. ton 94.00 - —
smaller lots, same basis, ton 99.10 - —
Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $15 per ton higher.
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. pt. lb. .18 - .24
t.c.l. same basis lb. .19 - .26
Borneol, cns. lb. 2.50 - 4.50
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
less truckload, works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).
Bromine, purif., cs., c.l., t.l., dlvd. E. of Rockies lb. .31 - —
t.c.l., same basis lb. .33 - .38
ret. dms., c.l., t.l., same basis, lb. .30 - —
t.c.l., same basis lb. .30 - .32
tanks, same basis lb. .21½- —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 - 5.70
Bronze powder aluminum (See A).
Brown, iron oxide, pure, bgs., c.l., works lb. .13¾- —
t.c.l., works lb. .14 - —
Oxide, metallic, bgs, works lb. .04 - —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
t.c.l., works lb. .04½- .15½
raw, paper, bgs., c.l., works lb. .04½- .13
t.c.l. works lb. .04¾- .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
t.c.l., works lb. .06½- .07
Turkey type bgs. c.l. Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. lb. .06¾- —
t.c.l., works lb. .07 - —
raw, American, bgs., works lb. .06¼- .06½
Turkey-type, bgs., works lb. .06¾- .07
Vandyke, bbls., works lb. .09½- .12
Brucine, cns., 100-oz. lots oz. .20 .25
Sulfate, NF, cns., 100-oz. lots oz. .15 - .20
Buchu leaves, bls lb. .50 - —
Butadiene, refd., cyls., refy lb. .22 - —
tanks, refy lb. .15 - —
Butane, industr., tanks, group 3 gal. .03½- —
N. Y. harbor gal. .08 - —
n-Butyl acetate, ferment., dms., c.l., frt. alld lb. .15 - —
t.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
n-Butyl acetate, syn., dms., c.l., dlvd. E lb. .15 - —
t.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
sec-Butyl acetate, syn., dms., c.l., dlvd. E lb. .12½- —
t.c.l., same basis lb. .13¼- —
tanks, same basis lb .10¾- —
n-Butyl alcohol (see Alcohol, n-Butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works lb. .37½- —
t.c.l. works lb. .38 - —
Ether, dms., c.l., works lb. .31½- —
t.c.l., works lb. .32 - —
tanks, works lb. .30 - —
Lactate dms., c.l., frt. alld. E. of Rockies lb. .35 - —
t.c.l., same basis lb. .36 - —
tanks, same basis lb. .33 - —
Laurate, dms., works lb. .39 - —
Methacrylate, dms., t.t.l., works, lb. .70 - —
Oleate, refd., dms., t.c.l., works lb. .22 - —
Phenylacetate dms lb 4.50 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms. t.c.l., frt. equald lb. .24 - .27
Butylamine (see mono-di- and tri-).
6-tert-Butyl-m-cresol, dms., c.l., works lb. .49 - —
t.c.l., works lb. .50 - —
tanks, works lb. .48 - —
p-tert-Butylphenol, bgs., c.l., works, lb. .23½- —
t.c.l., works lb. .24½- —
Butyraldehyde, dms., c.l., dlvd lb. .21½- —
t.c.l. dlvd lb. .22½- —
tanks, dlvd lb. .19½- —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter)
Cadmium iodide, 25-lb. fib. dms lb. 6.75 - 7.05
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, USP, nat., cryst., anhyd., dms., 100-lb. lots or more lb. 3.35 - —
hydrous, dms., 100-lib. lots or more lb. 3.15 - —
syn., cryst., anhyd., dms., 100-lb. lots or more lb. 3.35 - —
hydrous, 100-lb. lots or more, lb. 3.15 - —
citrated, USP, dms., 100-lb. lots or more lb. 2.90 - —
Calamine, USP, dms lb. .34 - —
Calciferol, cryst., vials, 1-kilo lots, works gram. .60 - —
25 to 100 gram lots, works, gram. .65 - —
in edible oil (see Viosterol).
Calcium p-aminosalicylate, fib., dms., 1,000 lb. lots, frt. adjusted lb. 7.00 - —
smaller lots, same basis lb. 7.05 - 7.50
Arsenate, dealers, dms., c.l., whse. works, frt. alld. on 96 lbs. or over lb. .09 - .10
t.c.l., same basis lb. .10 - —
Bromide, NF, jars lb. .90 - .97
Carbide, standard generator size, dms., c.l., dlvd ton 134.40 - —
Carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works ton 7.50 - 10.00
chalk, whiting, 325 mesh, bgs., works ton 32.00 - 34.00
water-grd., ½ to 0 microns, bgs., c.l., works ton 30.00 - —
10 to 20 microns, bgs., c.l., works ton 17.00 - 18.00
precip., dense, bgs., c.l., works, ton 30.00 - 33.00
t.c.l., works ton 40.00 - 48.00
medium, bgs., c.l., works ton 35.00 - —
t.c.l., works ton 45.00 - 50.00
surface treated, bgs., c.l., works ton 35.00 - 50.00
t.c.l., works ton 45.00 - 65.00
ultrafine, bgs., c.l., works, ton 110.00 160.00
t.c.l., works ton 120.00 - 175.00
Chloride, cryst., purif., dms lb. .27 - —
flake, 77-80%, paper bgs., c.l., works, frt. equald ton 27.00 - —
liquor, 40%, tanks, frt. equald, ton 11.35 - —
pellets, bgs., c.l., works ton 33.00 - —
powd., bgs., c.l., works ton 37.65 - —
solid, 73-75%, dms., c.l., frt equald ton 25.50 - —
t.c.l., works, same basis ton 34.00 - 71.00
USP, gran., dms lb. .40 - —
Chromate, bgs, frt equald lb .29½- .30
Cyanide, dms., dlvd. E. of Rockies lb. .24 - .50
Gluconate, AA, bbls., dms lb. .70 - .72
USP, bbls. dms lb. .53 - .65
Glycerophosphate, NF, fib. dms, lb. 2.30 - 2.45
Hydride, dms., works lb. 2.15 - 3.00
Hypochlorite, high test, cased (45 lbs.), dlvd. E. of Rockies cs. 22.60 - 24.75
dms., 100-lb. same basis dm. 28.65 - 32.50
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars lb. 4.52 - —
Lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb. .41 - .48
Mandelate, USP, dms., works lb. 2.10 - 2.25



The vitamin A unit was originally defined in terms of what it took to start an A-starved rat growing again. Though long ago spectrophotometric methods of measurement took over, the liver storage type of bio-assay has its utility.

DPi will be happy to supply pharmaceutical laboratories with copies of its recently published "Simplified Procedure for Extraction and Determination of Vitamin A in Rat Liver."

We manufacture Myvax® Vitamin A Palmitate and Myvax Vitamin A Acetate and offer our technical counsel on their incorporation into finished pharmaceutical products, which we ourselves do not produce. *Distillation Products Industries*, Rochester 3, N. Y. Sales offices: New York, Chicago, and Memphis • W. M. Gillies and Company, Los Angeles, Portland, and San Francisco • Charles Albert Smith Limited, Montreal and Toronto.

leaders in research and production of vitamin A

DPi

Also . . . vitamin E . . . distilled monoglycerides . . . some 3500 Eastman Organic Chemicals for science and industry

Distillation Products Industries *is a division of* **Eastman Kodak Company**

Calcium Naphthenate—Chloropicrin

Calcium naphthenate, liq., 4% Ca, dms., frt. equald lb. .27¼- —
Nitrate, fertilizer grade, sks., c.l., Los Angeles ton.46.00 - —
tech., dms., works lb. .13 - —
d-Pantothenate, jars, 100-gram lots or more, frt. adjusted, gram .07½- —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms lb. .70 - —
Phosphate dibasic, USP, bgs., c.l., frt. equald 100 lbs. 7.10 - —
t.c.l., frt. equald 100 lbs. 7.60 - 7.95
feed grade, 18½ to 21 units, bgs., c.l., frt. equald ton.74.00 -84.00
t.c.l., frt. equald ton.85.00 -95.00
monobasic, bgs., 10,000-lb. lots, frt. equald 100 lbs. 6.05 - —
smaller lots, same basis, 100 lbs. 6.55 - —
tribasic, precip., NF, bgs., c.l., frt. equald. 100 lbs. 7.60 - —
t.c.l., frt. equald 100 lbs. 7.95 - —
Phytate, bgs., works lb. .37 - —
Resinate precip dms. frt alld., works lb. .30½- —
Silicate, hydrated, bgs., c.l., works, lb. .06 - —
t.c.l., works lb. 06½- —
paint grade (see Wollastonite).
Stearate, ctns., c.l. lb. .35 - —
t.c.l. lb. .36 - .40
Sulfate (see Gypsum)
Calomel, USP, powd., dms lb 5.42 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .128 - —
t.c.l., same basis lb. .143 - —
tanks, same basis lb. .103 - —
Chlorinated, 67-69% (see Toxaphene).

Camphor monobromated, NF, dms., kgs lb 3.00 3.12
nat., USP, powd., cs., 100-lb. lots, lb. .60 .65
tablets, 1-oz., ½-oz. cs lb. .75 .80
syn., tech., 1 bbl. or more lb. .52 —
USP, gran., powd., bbls, 2,000-lb. lots lb. .59 - —
1,000-lb. lots lb. .60 - —
smaller lots lb. .61 - —
Syn., USP, tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb 2.00 2.05
powd. bxs. lb 2.25 2.30
Russian bgs. lb 4.00 4.05
powd. bxs. lb 4.35 4.40
Capsicum (see Pepper, red).
Oleoresin NF from domestic pepper, dms lb 4.50 - 5.25
from African pepper, dms lb 4.35 5.00
Caraway seed, Dutch, bgs lb. .19¾- .20
Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbinol, methyl isobutyl (see Methyl isobutyl carbinol).
Carbon dioxide, indust., wholesale, bulk divd. metropolitan area, ton.73.00 -115.00
cyls., same basis lb. .08 - —
solid, same basis lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. alld. to competitive points lb. .0750- —
t.c.l., same basis lb. .0850- —
5-gal. dms., c.l. same basis lb. .1025- —
t.c.l. same basis lb. .1125- —
tanks, same basis lb. .0515- .0525

Carbon tetrachloride, CP, dms., frt. alld. lb. .10½- .12¼
tech., consumers, dms., c.l., E. Rockies, frt. alld lb. .10 - —
W of Rockies, f.o.b., stock-points lb. .10½- —
t.c.l., E. of Rockies, frt. alld. lb. .11¾- —
W of Rockies, f.o.b. stock-points lb. .12¼- —
tanks, E. of Rockies, frt. alld. lb. .085 - —
W. of Rockies, f.o.b. stockpoints lb. .09 - —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb lots, works lb 4.00 - 4.25
smaller lots, works lb 4.10 - 4.75
Cardamom fruit, fancy, bold, cs lb. 3.95 - —
AA, cs. lb. 3.60 - —
decorticated, Alleppey, cs lb. 1.90 - —
Guatemalan, cs. lb. 2.10 - —
green, Alleppey, bgs lb. 1.90 - —
Ceylon, bgs. lb. 1.90 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100-lb. lots or more, divd lb. 7.80 - —
smaller lots, divd. lb. 7.95 - 8.45
gram, tins, works gram. .55 - —
Carotene, tech., 1,350,000 A units per gram, tins, works gram. .55 - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works,
microcrystalline in oil, 400,000 A units per gram, tins, works, million units. .33 - —
Carvol, bots. lb. 4.75 - 9.65
Cascara sagrada bark, bulk lb. .30 - .31

Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, shipt. point lb. .27 - .30
premium, bgs., 10,000-lb. lots or more, shipt. point lb. .35 - .40
imp., Argentine, acid-precip., grd., 100-lb. lots or more, duty paid lb. .23 - .23½
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls. lb. .17½- —
longstick, cracked, bls. lb. .19½- —
shortstick, cracked, bls. lb. .18½- —
Saigon, broken, bls lb. No prices.
medium, reconditioned, bls lb. No prices.
thin, bls lb. No prices.
Castor beans, bgs., f.o.b. Brazilian ports long ton.100.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton.37.50 Nom.
Castoreum, nat., cns lb. 5.00 -30.00
syn., cns lb. 9.00 - —
Catechol, CP, cryst., fib. dms., works lb 2.17½- —
resub., dms., works lb. 4.29½- —
Catnip leaves, Southern, bls lb. .75 - —
Celery seed, French, bgs., shipt lb. .46 - .50
Indian bgs. lb. .14½- .15
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, powd., ctns., bgs., 100-lb. lots or more, divd. E lb. .35 - .46
Acetate-butyrate, powd., 17% butyryl content, bgs., divd. E, lb. .545 - .555
27% butyryl content, bgs., divd. E lb. .595 - .605
38% butyryl content, bgs., divd. E lb. .545 - .555
50% butyryl content, bgs., divd. E lb. .585 - .595
half-second, bgs., divd. E, lb. .545 - .555
Cerium hydrate, 74% CeO_2, fib. dms., 100-lb lots or more lb. 1.44 - —
77% CeO_2, fib dms., 100-lb lots or more lb 1.74 - —
Oxalate, NF, bbls. bgs., works lb 1.05 - —
Oxide, optical grade, bgs. 50-lb. lots or more, works lb 1.85 - 1.98
smaller lots works lb 2.03 - 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs lb. .75 - .80
Roman cs lb 1.00 - 1.15
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32½
smaller lots works lb .27 .50
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton.77.00 -88.00
gran., bgs., works ton.77.00 - —
bulk c.l., works ton 70.40 - —
Pinewood, gran., powd., bgs., c.l., works, South ton.55.00 - —
t.c.l., works, South ton.55.00 -65.00
lump bgs., c.l., works, South ton.51.50 - —
t.c.l., works, South ton.54.50 -69.00
bulk, c.l., works, South ton.36.00 - —
Chestnut extract, liq., 25% tannin, bbls., c.l., works lb. .04¾- —
t.c.l., works lb. .0510- —
tanks, works lb. .04 - —
powd., 60% tannin, bgs., extra, c.l., works lb. .1032- —
t.c.l., works lb. .1102- —
Chloral, tech., 94% min., dms., c.l., works lb. .23 - —
t.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.00 - —
500-lb. lots lb. 1.03 - —
100-lb. lots or less lb. 1.05 - —
Chlordan, agricultural, dms., c.l., frt alld lb. .65 - —
t.c.l., 5,000 to 10,000 lb. lots, frt. alld lb. .66 - —
clarif., dms., c.l., frt. alld lb. .75 - —
t.c.l., 5,000 to 10,000 lb. lots, frt. alld lb. .76 - —
Chloramine T, NF, bbls., works lb. .75 - 1.00
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .15½- —
t.c.l., same basis lb. .16½- —
70%, dms., c.l., same basis lb. .18 - —
t.c.l., same basis lb. .19 - —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
t.c.l., works lb. .56 - —
125, 1,000 cps., ctns., c.l., works lb. .65 - —
t.c.l., works lb. .66 - —
Chlorine, liq., cyls., c.l., works, frt. equald lb. .09½- —
t.c.l., Metropolitan area lb. .11 - .12¼
tanks, single units, works, frt. equald 100 lbs. 2.93 - —
multiple units, 5 cars, works, frt. equald 100 lbs. 3.80 - 3.83
3 cars, same basis 100 lbs. 3.80 - —
2 cars, same basis 100 lbs. 5.00 - —
1 car, same basis 100 lbs. 6.00 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —
m-Chloroaniline, dms., c.l., frt. equald lb. .75 - —
t.c.l., same basis lb. .80 - —
o-Chloroaniline, dms., c.l., works, frt. equald lb. .70 - —
t.c.l., same basis lb. .72 - —
p-Chloroaniline, dms., c.l., works, frt. equald lb. .75 - —
o-Chlorobenzaldehyde, dms., works, lb. 1.20 - —
p-Chlorobenzaldehyde, dms., works, lb. 1.33 - —
Chloroform, tech., dms., c.l., divd. E lb. .18 - —
t.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms lb. .30 - —
2-Chloro-4-nitroaniline, paste, 100% basis lb. .81 - —
powd., divd. E lb. .86 - —
4-Chloro-2-nitroaniline, powd., divd. E lb. .80 - —
o-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
t.c.l., same basis lb. .35½- —
p-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
t.c.l., same basis lb. .35½- —
Chlorophyll, oil soluble, 4%, not fixed, pails, tins, works lb. 4.25 - —
copper fixed, 6½%, tins, pails, works lb. 4.25 - —
Sodium-copper, aqueous soln., 4%, dms., pails, works lb. 3.75 - —
8%, pails, dms., works lb. 4.00 - 4.80
14%, dms., works lb. 8.90 - —
conc., dom., 50%, dms., works, 100% basis lb.42.00 - —
75%, dms., works, 100% basis lb.45.00 - —
90%-100%, dms., works, 100% basis lb.45.00 - —
imp., 60%, tins, 100% basis, lb.58.00 - —
90%, tins, 100% basis lb.58.00 - —
75%, tins, 100% basis lb.58.00 - —
Chloropicrin, coml., bots. lb. 1.50 - —
cyls. 100 lbs frt alld lb .95 - —
100 lbs., same basis lb. .97 - —
25 lbs., same basis lb 1.22 - —

FOR THE CHEMICAL AND GENERAL INDUSTRY

Caffeine—Natural
Caffeine—Synthetic
Cesium Salts
Cocaine and Salts
Coumarin
Theobromine
Theobromine—Sod. Sal.
Theophylline
Vanillin—Eugenol

Lithium Products
Lithium Benzoate
Bromide
Carbonate
Chloride
Citrate
Fluoride
Hydride
Hydroxide
Metal & Metal Alloys
Salicylate
Stearate
Sulphate

Rare Earth Products
Cerium Carbonate
Chloride
Hydrate
Nitrate
Oxide
Rare Earth Carbonate
Chloride
Fluoride
Nitrate
Lanthanum Salts
Neodymium Salts
Thorium Nitrate

Aromatics
Ionones
Methyl Ionones
Isolates
Synthetics

Synthetic Detergents
Maypon 4 C
Maypon K
Maypon M
Maypon OW

FOR THE TEXTILE INDUSTRY

MAYPON K
PROTEIN — FATTY ACID — CONDENSATE
An effective anionic detergent in scouring, bleaching, and dyeing.
A powerful emulsifier for mineral oils.

FOR THE COSMETIC INDUSTRY

MAYPON 4 C
PROTEIN — FATTY ACID — CONDENSATE
Anionic sudsing agent, detergent, and emulsifier in the production of
SHAMPOOS • PERMANENT COLD WAVE SOLUTIONS • LIQUID BATH PREPARATIONS COSMETIC CREAMS
In all concentrations, Maypon 4 C satisfies the Draize Woodward eye irritation test.

MAYWOOD CHEMICAL WORKS
MAYWOOD, NEW JERSEY
ESTABLISHED 1895
MAYPON

Cholesterol, USP, fib, dms., 100-lb. lots lb. 6.85 - 9.00
Choline bitartrate, fib dms., frt. adjusted lb. 1.25 - 1.50
Chloride fib dms., frt. adjusted lb. 1.50 - 1.75
Dihydrogen citrate, fib dms., frt. adjusted lb. 1.50 - 1.75
Chromium acetate, soln., 7½%, bbls., works lb. .08½- —
cbys works lb. .10¼ - —
Fluoride, bbls., works lb. .51 - .52
Green (see Green, chrome).
Oxide (see Green chromium oxide).
Trioxide NF bots lb .82 - .89
Yellow, (see Yellow, chrome)
Cinchona bark, NF, red, broken, bgs lb. .35 - .40
yellow, broken, bgs lb. .35 - .40
Cinchonidine cryst cns 100-oz lots oz. .65 —
Sulfate cns., 100-oz. lots oz. .35 - —
Cinchonine cryst cns. 100-oz lots oz. .52 - .57
Sulfate, NF, cns. 100-oz lots oz. .27½- .30½
Cinchophen NF heavy density, dms. frt adjusted lb. 3.70 4.05
standard density, dms. same basis lb. 3.50 3.85
Cinchophen-sodium dms. frt. adjusted lb 4.50 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Aldehyde, cns., dms. lb. 1.00 - 1.30
Cinnamon, Ceylon, No. 2 lb. .59 - —
"0000," bgs. lb. .84 - .86
Citral, bots., cns lb. 7.05 - —
Citronellal, bots., dms lb 1.85 - 2.50
Citronellol, bots., dms lb. 3.70 - —
Civet, artif., bots lb. 13.75 -15.00
nat., bots oz. 7.50 -15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton. 19.50 - —
crushed, shed moisture, bulk, c.l., Tenn ton. 10.00 - —
purif., bgs., c.l., Tenn ton. 20.50 - —
imp., airfloated, bgs., c.l., Atl. port long ton. 42.00 -45.00
lump, bulk, Atl. port long ton. 27.00 -30.20
China, dom., dry-grd., airfloat, 99% 325 mesh bgs., c.l., Georgia, works ton. 10.00 - —
l.c.l. Georgia works. ton. 15.50 - —
300 mesh, bgs., c.l., Georgia, works ton. 13.50 -14.50
l.c.l. ton. 35.00 -36.00
imp., white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton. 20.00 -35.00
powd., bgs. c.l., ex dock net ton 30 00 —
l.c.l., ex whse net ton. 60.00 -65.00
Clove, Madagascar, bgs. lb. .54 - —
Zanzibar, bls. lb. .52 - —
CMC, crude, 96%, low or medium vis., bgs., or fib. dms., 23,000 lbs., dlvd. E., 100% basis. lb. .37 - —
less than 23,000 lbs., dlvd. E., 100% basis lb. .41 - —
65%, bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .37 - —
l.c.l., dlvd. E., 100% basis. lb. .41 - —
purif., high vis. (see Gum Cellulose).
standard, low or medium vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .53 - —
smaller lots, same basis lb. .57 - —

CMC prices W. of the Rockies are 2c. per lb. lower, and are on a works basis.

Coaltar, crude, resale dms., c.l., ex-whse gal. .255 - —
l.c.l., ex-whse gal. .275 - —
tanks, ex works gal. .155 - .159
refd., resale, dms., c.l., ex-whse. gal. .2350- .32
l.c.l., ex-whse gal. .2850- .34
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, bbls., dlvd. lb. 1.30 - —
Carbonate, 46% pow'd., bgs., dlvd. lb. 2.15 - —
Chloride, 24.2% Co. kgs., dlvd., lb. 1.20 - —
Hydrate, 60-61% Co. bbls., dlvd. lb. 2.72 - —
Linoleate, fused, 8½% Co., dms. lb. .75¾- —
liq., 6% Co., dms lb. .61 - —
Metal, 97-99% kgs. ex whse lb. 2.60 - —
Naphthenate, liq., 6% Co., dms., dlvd lb. .48¼- —
Nitrate, 20.1% Co. bbls., dlvd lb. 1.00 - —
Oxide, black, 72½-73½% Co., kgs. lb. 1.96 - —
70-71% Co. kgs lb. 1.90 - —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 - —
Resinate, fused, 3% Co., dms lb. .29¾- —
Sulfate, cryst. 21% Co., dms., dlvd lb. .89 - —
monohydrated, 33% Co., dms dlvd lb. 1.40 - —
Tallate, 6% Co., dms., dlvd lb. .43¾- —
Cocaine, USP, cns., 100-oz. lots oz. 17.80 - —
Hydrochloride, cns., 100-oz. lots oz. 13.75 - —
Cocillana bark, bgs lb. .40 - .50
Cocoa butter, bgs. lb. .76 - .85
Codeine, NF, cns., 100-oz. lots oz. 13.25 - —
Hydrochloride, cns., 100-oz. lots oz. 11.75 - —
Phosphate, USP, cns., 100-oz. lots. oz. 10.25 - —
Sulfate, USP, cns., 100-oz. lots oz. 10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .20 - .22
blue, bls lb. .20 - .22
Colchicine, USP, bots., cns. oz. 33.50 -40.00
Colchicum root, bls lb. .45 - .55
seed, bgs lb. .80 - 1.10
Collodion, USP, dms lb. .32½- —
flexible, USP, dms lb. .34 - —
Colocynth, pulp, bls lb. .25 - .30
Colombo root, bls lb. No prices.
Condurango bark, bales lb. .40 - .50
Copaiba balsam, cns., dms lb. .90 - 1.20
Copper acetate bbls., c.l., works lb. .40 - —
l.c.l., works lb. .41 - —
Carbonate, 55%, bgs., works lb. .28 - .29½
Chloride, anhyd., bbls., works lb. .41½- —
cryst., bbls., works lb. .27½- .28
Cyanide, tech., bbls., 20,000 lb. lots or more lb. .657 - —
1,000 lb. lots or more lb. .667 - —
smaller lots lb. .687 - —
Gluconate, cns., dms lb. 3.00 - 3.24
Hydrate, dms., frt. alld. E. Miss. lb. .43¼- .43¾
Metal, electrolytic, dlvd., Valley basis lb. .33 - —
Naphthenate, liq., 8% Cu., dms., frt. alld lb. .23½- —
Nitrate, tech., cryst., bbls., works. lb. .32¼- —
Oleate, solid, 9% Cu, dms., works lb. .45 - —
Oxide, black, bbls., works lb. .42 - .47½
red, USN type I, 97%, bbls., works lb. .64 - —
type II, 90%, bbls., works lb. .44½- —
Oxychloride, dms., works lb. .40 - .40½
Quinolinate, fib. dms lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld lb. .31½- —
Sulfate, CP, gran., bbls., works lb. .1815- —
cryst., 99%, bgs., c.l., works. 100 lbs. 11.25 - —
l.c.l., works 100 lbs. 11.50 -12.25
monohydrated, 35% dms., c.l., works 100 lbs. 18.25 - —
tribasic, dealers, bgs., c.l., works, frt. alld 100 lbs. 24.25 - —
l.c.l., works 100 lbs. 25.25 -26.25
Undecylenate, dms lb. 2.90 - 3.00
Copperas (see Ferrous sulfate).

Copra, Atl. Gulf ports, c.i.f. ton. 180.00 - —
Pacific ports, c.i.f. ton. 175.00 - —
Coriander seed, Moroccan, bgs. lb. .09 - —
Roumanian, bgs. lb. .07 - —
Corn sugar, tanners, chipped, paper bgs. c.l. 60,000 lbs min. 100 lbs 7.31 - —
l.c.l. 100 lbs. 7.46 - —
Syrup, 42° dms., c.l. 100 lbs 7.32 - —
l.c.l. 100 lbs. 7.46 - —
Corrosive sublimate (see Mercuric Chloride)
Cortisone acetate, NNR, bulk gram. 3.50 - 3.55
Cottonseed meal, exp. 41%, bgs., Memphis ton. 65.00 -66.00
Coumarin, cryst., NF, dms lb. 3.10 - 3.20
Cramp bark, NF, bls lb. .85 - .90
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots. cbys. lb. 3.05 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 —
soln., 80%, tanks, works gal. .2068- —
refd., dms., c.l., works gal. .40 - .42
l.c.l., same basis gal. .50 - .53
tanks, same basis gal. .30 - .33
Wood, beechwood, cbys., dms lb. 1.60 - 1.65
hardwood, NF, bots., cbys lb. 1.30 - 1.35
pinewood, tanks, works lb. .427 - .438
Cresol, tech., 50% below 204°C., dry above 207 C. wide distillation range, non-ret. dms. c.l. frt equald lb. .133 - —
l.c.l. same basis lb. .136 - —
tanks, same basis lb. .12 - —
USP, non-ret. dms., c.l., same basis lb. .143 - —
l.c.l., same basis lb. .146 - —
ret dms., c.l., same basis lb. .140 - —
l.c.l., same basis lb. .145 - —
tanks, same basis lb. .130 - —
m-Cresol, 95-98%, dms., c.l., works. lb. .60 - —
l.c.l., works lb. .61 - —
o-Cresol, m.p. over 30°C., ret. dms., c.l., frt. equald lb. .173 - —
l.c.l., same basis lb. .176 - —
tanks, same basis lb. .16 - —
29°C., ret. dms., c.l., frt. equald. lb. .16 - —
l.c.l., same basis lb. 16½- —
tanks, same basis lb. .15 - —
25-29°C., dms., c.l., frt. equald. lb. .153 - —
l.c.l., same basis lb. .156 - —
tanks, same basis lb. .14 - —
p-Cresol, 98%, dms., c.l., dlvd lb. .49 - —
l.c.l., dlvd lb. .51 - —
Methyl ether, cns lb 1.90 - 2.50
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼- .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 - —
l.c.l., works 100 lbs. 14.25 - —
Insecticide dealers bgs. c.l. dlvd 100 lbs. 16.75 - —
l.c.l., dlvd 100 lbs. 17.75 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .25 - —
l.c.l., works lb. .26 - .26½
Cubeb berries, XX, NF, bgs lb. .50 - —
powd., cs lb. .65 - —
Cumene, dms c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .11 - —
Cumin seed, Iranian, bgs. lb. .13 - —
Turkish, bgs. lb. .13 - —
Cutch extract, 55% tannin, bgs., ex dock, duty extra lb. .08½- —
Cyanamide fertilizer mixing grades, 20.6% N, gran., bgs., Niagara Falls, Ont., contract ton. 55.00 - —
pulv., 21% N, bgs., works. unit-ton. 2.75 - —

Cholesterol—Dandelion Root

Cyanamide, indust. grade, bgs., c.l., works ton. 75.00 - —
l.c.l., bgs., works ton. 90.00 - —
6-16 mesh, dms. c.l., works ton. 120 00 - —
l.c.l., dms., works ton. 140.00 - —
Cyclohexane, 99%, tech., dms., c.l., works gal. .70 - —
l.c.l., works gal. .72 - —
tanks, works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½ 37¾
l.c.l. works, same basis lb. .30 38¼
tanks, works, same basis lb. .27 36¼
Cyclohexanone, tech., dms., c.l., works lb. .33½- —
l.c.l., works lb. .35 - —
tanks, works lb. .32 - —
Cyclohexylamine, dms., c.l., works. lb. .46½- —
l.c.l., works lb. .47½- —
tanks, works lb. .45 - —
Cyclopropane, CP, 2-lb cyls. works. cyl 48 00 —
6 oz. cyls., works cyl 12 00 —
USP, hospitals, cyls., 40-gal. lots, gal. .38 - —
100-gal. tots gal. .37 - —
200-gal. tots gal. .36 - —

D

2-4-D, tech., dms., c.l., works, frt. equald lb. .41½- —
l.c.l., same basas lb. .46½- .48¼
Butyl ester, dms., c.l., works lb. .43 - —
l.c.l., same basis lb. .48 - .50
Isopropyl ester, dms., c.l., works. lb. .43 - —
l.c.l., works lb. .48 - .50
Dandelion root, bls lb. .35 .40

VULCAN

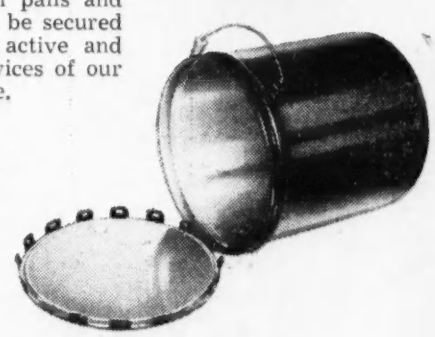
STEEL SHIPPING PAILS and CONTAINERS

IN ALL TRADE SIZES AND STYLES — 1-15 GALLONS

Standard Lug-Closure Pails—Carried in stock in a wide range of trade sizes for liquid and dry products. These sturdy, precision built pails have accurately formed cover lugs which are crimped beneath the curled rim of the pail to make a closure which defies all shipping hazards.

Lug Closure Pouring Pails— Combination shipping and dispensing containers which insure safe delivery for your products and convenience in using them. Full opening for easy filling.

Hi-Bake Linings— Hi-Bake Linings are applied under the control of scientific instruments and are available in all styles of Vulcan pails and drums. A wide variety of linings can be secured for safe and approved shipment of active and "hard-to-hold" materials, and the services of our trained resident chemist are available.



Drum-Type Closed-Head Containers—Required for the shipment of many thin liquids. These Vulcan containers have welded side-seam, top and bottom double-seamed, and are offset at the top for solid stacking.

NEW—1 Gallon Drum—for "hard-to-hold" products. A sturdy, round, 6½" diameter, 24 gauge, ICC-17E. Container with necked in top for stacking and non-toxic chemical resistant hi-bake interior lining. Has carrying handle and recessed screw cap with plastic pouring spouts stocked.

ENORMOUS QUANTITIES OF STEEL PAILS AND DRUMS IN STOCK FOR IMMEDIATE SHIPMENT
From a Carton to a Carload
Samples Gladly Sent Upon Request

VULCAN STAMPING & MFG. CO.

BOX 161-OPD, BELLWOOD, ILLINOIS (Suburb of Chicago)
IN TORONTO, CANADA — VULCAN CONTAINERS LIMITED
Representatives in All Principal Cities

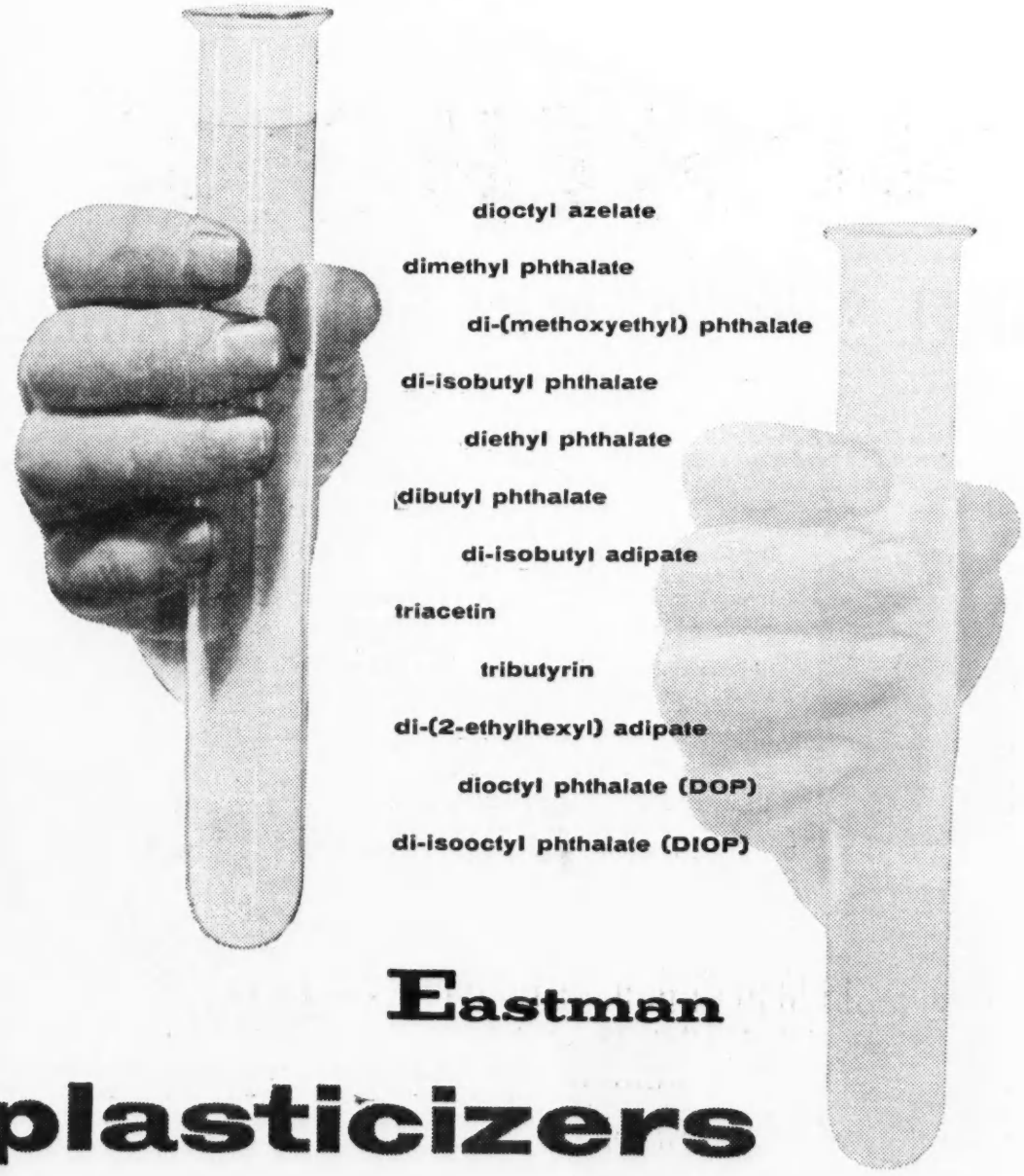
DDD—Dipropylene

DDD, tech., flake, grd., fib. bgs., c.l., works lb. .45 - —
l.c.l., works lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald lb. .27 - —
smaller lots, same basis lb. .29 - —
fib. dms., c.l., same basis lb. .28 - —
smaller lots, same basis lb. .30 - —
1-Decanol, tech., dms., c.l., dlvd lb. .41 - —
l.c.l., dlvd. lb. .43 - —
tanks, dlvd. lb. .33½- —
Deer-tongue leaves, bls lb. .45 - —
Defluorinated phosphate, 15% P paper bgs. works ton 49.50 - —
14½% P, paper bgs., works ton 48.00 - —
17% P, paper bgs., works ton 56.00 - —
18% P, paper bgs., works ton 64.55 - —
Degras, common, bbls lb. .19 - .12
neutral, less 2% ffa., bbls lb. .23 - .24
over 2% ffa., bbls lb. .22 - .23
Derris root 5% rotenone powd., bbls lb 26 Nom.
d-Desoxyephedrine hydrochloride bots lb 25.00 - —
dl. bots. lb 6.50 - —
Dextrin, corn, gum, paper bgs., c.l., 100 lbs 8.95 - —
l.c.l. 100 lbs. 9.10 - —
canary paper bgs. c.l. 100 lbs. 8.69 - —
l.c.l. 100 lbs. 8.84 - —
dark, paper bgs. c.l. 100 lbs. 8.69 - —
l.c.l. 100 lbs. 8.94 - —
white paper bgs., c.l. 100 lbs. 8.43 - —
l.c.l. 100 lbs. 8.68 - —
Corn dextrin in cotton bgs 25c per 100 lbs higher.
Potato bgs. lb 10½ 11
Dextrose, USP, dms. lb. .17¾- —
Diacetone (see Alcohol diacetone).
Diacetyl, flavor grade, bots lb 4.50 5.50

Di-sec-amyl phenol, dms., c.l., works lb. .26¼ —
l.c.l., works lb. .33¼- —
tanks, works lb. .28¼- —
Di-tert-amyl phenol, dms., c.l., works lb. .30¼- —
l.c.l., works lb. .33¼- —
tanks, works lb. .28¼- —
o-Dianisidine fib. dms lb 2.00 - —
Dibenzyl sebacate, dms., c.l., works, lb. .89¼- .90
l.c.l., same basis lb. .90¼- .91
tanks, same basis lb. .86 - —
p-Dibromobenzene, bgs., 500-lb. lots lb .55 - —
Dibutyl phthalate, dms., c.l., dlvd, E lb. .32 - —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .30 - —
Sebacate, dms., c.l., works lb. .68 - —
l.c.l., works lb. .68½- .69
tanks, works, dlvd lb. .66 - .66½
Tartrate, dms., works, frt. alld lb. .64 - .71
Dibutylamine, dms., c.l., dlvd lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Di-tert-butyl-p-cresol, dms., c.l., works lb. .91 - —
l.c.l., works lb. .95 - —
Dicapryl phthalate, dms., c.l., dlvd., works lb. .30½- .31½
l.c.l., same basis lb. .31½- .32½
tanks, same basis lb. .29½- —
Sebacate, dms., c.l., works lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
2,5-Dichloroaniline, dms., works lb. .83 - —
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¼- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —

p-Dichlorobenzene, dms., c.l., frt. alld. E lb. .16½- —
l.c.l., same basis lb. .19 - —
Dichlorodiphenyltrichloroethane (see DDT).
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
l.c.l., works lb. .05¾- —
tanks, works lb. .04¼- —
Dicyclohexylamine, dms., c.l., works. lb. .51 - —
l.c.l., works lb. .51¾- —
tanks, works lb. .49¾- —
Dicyclohexyl phthalate, fib. dms., c.l., frt. alld., works lb. .58¼- .59
l.c.l., same basis lb. .59¼- .60
Dieldrin, dms., frt. alld lb 1.80 - —
l.c.l., frt. alld lb 1.85 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .23¼- —
l.c.l., same basis lb. .27¼- —
tanks, same basis lb. .24½- —
Diethyl carbonate, dms., c.l., frt. alld lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks same basis lb. .45 - —
Ethanolamines, dms., c.l., dlvd. lb. .67½- —
l.c.l., dlvd lb. .68½- —
tanks, dlvd lb. .65½- —
Oxalate, dms., c.l., frt. alld lb. .42 - —
l.c.l., same basis lb. .43 - —
tanks, same basis lb. .40 - —
Phthalate, dms., c.l., dlvd lb. .27 - —
l.c.l. dlvd. lb. .28 - —
tanks, dlvd lb. .25 - —
Sulfate, dms., c.l., works lb. .18¾- —
l.c.l. works lb. .19¼- —
tanks works lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .50½- —
l.c.l., same basis lb. .51½- —
tanks, same basis lb. .46½- —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .51 - —
l.c.l., same basis lb. .52 - —
tanks, same basis lb. .50 - —

Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E. lb. .16½- —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .14¾- —
Borihorate, dms., l.c.l. lb. .31 - —
Diethyl ether, dms., c.l., works lb. .46½- —
l.c.l., works lb. .47 - —
Monobutyl ether, dms., c.l., works lb. .23¾- —
l.c.l., works lb. .29¼- —
tanks, works lb. .27 - —
Acetate, dms., c.l., works. lb. .30 - —
l.c.l., works lb. .30½- —
tanks, dlvd. E lb. .28¼- —
Monoethyl ether, dms., c.l., dlvd. lb. .20¾- —
l.c.l., dlvd lb. .21½- —
tanks, dlvd lb. .19½- —
Acetate, dms., c.l., works lb. .28¾- —
l.c.l., works lb. .27¼- —
tanks, dlvd. E lb. .25¼- —
Monomethyl ether, dms., c.l., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb. .18½- —
Diethylenetriamine, dms., c.l., dlvd E. lb. .43 - —
l.c.l. same basis lb. .44 - —
tanks, same basis lb. .41½- —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo 100.00 - —
1-kilo lot kilo 110.00 - —
Digitalis leaves, USP, dom., dms., lb. .90 - 1.10
Digitoxin, USP, bots gram. 5.00 - 5.50
Diglycol laurate, dms. lb. .35 - .38
Oleate, dms lb. .31 - —
Stearate, dms lb. .26 - .27
Dihexyl sebacate, dms., c.l., works lb. .64 - —
l.c.l., works lb. .64½- .65
tanks, works lb. .62 - —
Dihydrazine sulfate, dms., works, lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .11 - .12
Sulfate, bulk gram. .11 - .12
2,2-Dihydroxy-5,5'-dichloro-diphenylmethane, pure, dms lb. 2.80 - 3.00
tech., dms lb. 1.04 - 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15½- —
l.c.l., dlvd lb. .16½- —
tanks, same basis lb. .13½- —
Phthalate, dms., c.l., dlvd. E lb. .31 - —
l.c.l. same basis lb. .32 - —
tanks, same basis lb. .29 - —
Di-isobutylene dms., c.l., works lb. .10 - —
l.c.l., works lb. .11 - —
tanks, works lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .32½- —
l.c.l., same basis lb. .33½- —
tanks, same basis lb. .30½- —
Sebacate, dms., c.l., works lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies lb. .50 - —
l.c.l., same basis lb. .51 - —
tanks, same basis lb. 48 - —
Dillseed, dewhiskered, bgs. lb. .13 - —
nat., bgs. lb. .12 - —
Dimethyl anthranilate, cns lb. 5.25 - 5.75
Chloroacetal, dms., c.l., works lb. .45 - —
l.c.l., works lb. .50 - —
tanks, works lb. .40 - —
Ethanolamines, anhyd., dms., c.l., dlvd lb. 1.43 - —
l.c.l., dlvd lb. 1.45 - —
tanks, dlvd lb. 1.40 - —
70%, dms., c.l., dlvd., 100% basis lb. .63 - —
tanks, dlvd., 100% basis lb. .66 - —
Hydroquinone, dms lb. 1.70 - 2.75
Phthalate, dms., c.l., works lb. .29½- —
l.c.l., works lb. .30½- —
tanks, dlvd lb. .27¼- —
Sebacate, dms., c.l., works lb. 1.27 - —
l.c.l., works lb. 1.28 - —
tanks, works lb. 1.25 - —
Sulfate, 55-gal., ret. dms., c.l., works lb. .15 - —
l.c.l. works lb .16 - —
10-gal. ret. dms., l.c.l., works, lb. .16½- —
Dimethylamine, 25% soln., dms., c.l., frt. equald lb. .42 - —
l.c.l., frt. equald lb. .42½- —
tanks, frt. equald lb. .33 - —
40% soln., dms., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .39½- —
tanks, frt. equald lb. .33 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .29½- —
l.c.l., frt. alld lb. .30½- —
tanks, frt. alld lb. .28½- —
N,N-Dimethylformamide dms., works, lb. .34 - .39
tanks, works lb. .33 - —
2,4-Dinitroaniline, dms., frt. equald lb. .57 - —
m-Dinitrobenzene, 85°C., dms lb. .20 - —
89°C., dms lb. .22 - —
2,4-Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .15¼- —
l.c.l., frt. alld. E lb. .15¾- —
tanks, frt. alld., E lb. .15 - —
2,4-Dinitrophenol, bbls. lb. .37 - —
2,4-Dinitrotoluene, oily, dms. lb. .10 - —
refd., 68°C., dms. lb. .21 - —
Dioctyl adipate, dms., c.l., works, lb. .44½- —
l.c.l., works lb. .45½- —
tanks, works lb. .42½- —
Phthalate, dms., c.l., frt. alld. lb. .32½- —
l.c.l., frt. alld lb. .33½- —
tanks, frt. alld lb. .30½- —
Sebacate, dms., c.l., works, lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works, dlvd lb. .61 - .61½
Di-o-tolyguanidine, dms., ton lots, dlvd. lb. .57 - —
smaller lots, dlvd lb. .58 - —
1,4-Dioxane, dms., c.l., works lb. .28¾- —
l.c.l. same basis lb. .29¼- —
tanks, same basis lb. .27 - —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works, .35 - —
Dipentene, dest-dist., dms., c.l., works gal. .405 - —
l.c.l., works gal. .455 - —
ex-whse gal. .57 - —
steam-dist., dms., c.l., works, South. gal. .64 - —
dlvd, N. Y gal. .82 - —
tanks, works, South gal. .50 - —
Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns lb. .54 - .61
Phthalate, dms., c.l., works lb. .51¾- —
l.c.l., works lb. .53¾- —
Diphenylguanidine dms., ton lots lb. .48 - —
smaller lots lb. .49 - .50
Diphenylhydantoin-sodium, USP, dms lb. 5.30 - 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .16½- —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .14¾- —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —



Eastman plasticizers

As a leading supplier of quality plasticizers, Eastman is pleased to announce the addition of di-isooctyl phthalate to its line. Manufactured from a new, improved type of isooctyl alcohol, this plasticizer possesses the excellent qualities for which the present Eastman plasticizers are noted. It is available in drum, tank truck and tank car quantities. DIOP is only one of the many fine plasticizers made by Eastman. For further information on any of the plasticizers listed above, write or call your nearest Eastman representative.

SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tenn.; New York—260 Madison Ave.; Framingham, Mass.—65 Concord St.; Cincinnati—Carew Tower; Cleveland—Terminal Tower Bldg.; Chicago—360 Michigan Ave.; Houston—412 Main St.; St. Louis—Continental Bldg. **West Coast: Wilson Meyer Co.,** San Francisco—333 Montgomery St.; Los Angeles—4800 District Blvd.; Portland—520 S. W. Sixth Ave.; Salt Lake City—73 S. Main St.; Seattle—821 Second Ave.

Eastman
CHEMICAL PRODUCTS, INC.,
KINGSPORT, TENNESSEE
subsidiary of EASTMAN KODAK COMPANY

Divi-divi, 45% tannin, bgs., bls., c.l., U.S. ports, exdock ..ton.70.00 -72.00
Divinylbenzene, 20-25%, dms., c.l., works ..lb. .20 - —
l.c.l., works ..lb. .21
tanks, works ..lb. .19 - —
40-50%, dms., c.l., works, 100% basis lb. 1.00 - —
l.c.l., works, 100% basis ..lb. 1.15 - —
Dodecylbenzene, dms., c.l., frt. equald lb. .14½- —
l.c.l., same basis ..lb. .15½- —
tanks, same basis ..lb. .12½- —

Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots dlvd:—
Blue, FD & C, No. 1, cns ..lb.17.00 -17.60
No. 2, cns ..lb.17.00 -17.60
Green, FD & C, No. 1, cns ..lb.17.00 -17.60
No. 2, cns ..lb.22.20 -22.85
No. 3, cns ..lb.35.25 -35.90
Orange, FD & C, No. 1, cns ..lb. 3.65 - 3.75
No. 2, cns ..lb. 4.65 - 4.75
Red, FD & C, No. 1, cns ..lb. 7.55 - 7.85
No. 2, cns ..lb. 4.00 - 4.10
No. 3, cns ..lb.22.20 -22.85
No. 4, cns ..lb. 7.20 - 7.50
No. 32, cns ..lb. 5.30 - 5.40
Violet, FD & C, No. 1, cns ..lb.17.00 -17.60
Yellow, FD & C, No. 1, cns ..lb.10.50 -11.05
No. 3 cns ..lb. 3.30 - 3.40
No. 4, cns ..lb. 3.30 - 3.40
No. 5, cns ..lb. 4.00 - 4.10
No. 6 cns ..lb. 4.00 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—
Black, D&C, No. 1, cns ..lb.10.95 - —
Brown, D&C, No. 1, cns ..lb.16.10 - —
Green, D&C, No. 5, cns ..lb.16.10 - —
No. 6 cns ..lb.16.10 - —
No. 7, cns ..lb.14.80 - —
Orange, D&C, No. 3, cns ..lb.10.95 - —
No. 4, cns ..lb.20.05 - —
No. 5, cns ..lb. 5.70 - —
No. 10, cns ..lb.20.70 - —
Red, D&C, No. 8, cns ..lb. 2.85 - —
No. 9, cns ..lb. 2.85 - —
No. 10, cns ..lb. 2.30 - —
No. 11, cns ..lb. 1.85 - —
No. 12, cns ..lb. 2.65 - —
No. 17, cns ..lb.10.95 - —
No. 18, cns ..lb.24.00 - —
No. 19, cns ..lb.15.45 - —
No. 21, cns ..lb. 3.60 - —
No. 22, cns ..lb.10.95 - —
No. 28, cns ..lb.24.65 - —
No. 33 cns ..lb.17.45 - —
Violet, D&C, No. 2, cns ..lb.16.10 - —
Yellow, D&C, No. 7, cns ..lb.10.95 - —
No. 10, cns ..lb.13.50 - —
No. 11, cns ..lb.13.50 - —

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—
Blue, Ext., D&C, No. 1, cns. lb.16.10 - —
Green, Ext., D&C, No. 1, cns. lb.16.10 - —
Red, Ext., D&C, No. 1, cns ..lb.13.50 - —
Yellow, Ext., D&C, No. 1, cns ..lb.10.95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd, No.
20 Chrysoidine Y ..lb. .74 - —
27 Fast light orange 2G ..lb. .90 - —
31 Phloxine 2G ..lb. .74 - —
36 Yellow 2G ..lb. .83 - —
40 Orange R extra, conc ..lb. 1.06 - —
57 Fuchsine 6B ..lb. 1.08 - —
79 Scarlet 2R ..lb. .81 - —
151 Orange AD ..lb. .55 - —
161 Orange RR ..lb. .66 - —
176 Fast red A ..lb. .99 - —
179 Rubine XX, conc ..lb. 1.14 - —
180 Blue F4B ..lb. .92 - —
185 Brilliant scarlet 3RN, conc. lb. .93 - —
202 Chrome blue black, conc. lb. .75 - —
203 Chrome black T ..lb. .78 - —
208 Fast blue SR ..lb. .91 - —
216 Cirrome red B ..lb. .84 - —
234 Brown Y ..lb. .98 - —
246 Blue black, extra, conc. lb. .95 - —
275 Milling red 3R, conc ..lb. 2.03 - —
289 Navy blue 3R, conc ..lb. 1.19 - —
299 Black F, conc ..lb. 1.54 - —
304 Neutral black 2B, conc., 200% lb. 2.01 - —
326 Fast scarlet 4BNC ..lb. 1.64 - —
332 Bismarck brown RX, conc. lb. .95 - —
365 Brilliant yellow, conc ..lb. 2.57 - —
382 Scarlet B ..lb. 1.82 - —
401 Diazo black BHD ..lb. .69 - —
406 Blue 2B, extra conc ..lb. 1.07 - —
419 Red FC, conc ..lb. 1.12 - —
420 Brown M ..lb. .96 - —
448 Red 4BX, conc ..lb. 1.30 - —
518 Diamine sky blue FF, extra, conc. lb. 1.50 - —
561 Brown B ..lb. 2.03 - —
581 Direct black EB ..lb. .94 - —
593 Green BY, conc ..lb. .72 - —
596 Yellow Brown K, extra ..lb. .91 - —
620 Yellow 2G ..lb. 1.79 - —
640 Yellow XX ..lb. 1.61 - —
655 Yellow OX ..lb. 2.04 - —
657 Green V ..lb. 2.10 - —
662 Brilliant green G ..lb. 2.79 - —
667 Brilliant milling green 6B, conc. lb. 3.68 - —
671 Blue EG ..lb. 1.70 - —
681 Crystal violet powder ..lb. 2.15 - —
698 Violet 4BXN ..lb. 1.74 - —
720 Brilliant blue BBG ..lb. 1.88 - —
729 Blue B, conc ..lb. 2.79 - —
749 Red BX ..lb. 4.33 - —
814 Yellow NN, conc ..lb. 3.11 - —
841 Safranine GF, extra, conc., lb. 3.17 - —
865 Nigrosine WSJ ..lb. .75 - —
922 Blue GXX ..lb. 1.71 - —
978 Black GXCF, conc ..lb. .32 - —
1034 Alizarine red SC ..lb. 2.59 - —
1054 Alizarine blue SAPX ..lb. 2.91 - —
1078 Alizarine green CG, extra. lb. 2.72 - —
1085 Alizarine blue, black, B lb. 2.33 - —
1096 Golden orange GFD, single paste lb. 1.99 - —
1099 Dark blue BO, single paste, lb. 1.75 - —
1101 Jade green N, double paste. lb. 1.98 - —
1106 Blue RS, double paste lb. 2.96 - —
1113 Blue BLFD, double paste ..lb. 2.25 - —
1150 Olive R, single paste ..lb. 1.10 - —
1151 Brown R, single paste lb. 1.76 - —
1171 Indigo, synthetic, 20% paste lb. .31 - —
1217 Orange RD, single paste ..lb. 1.65 - —
p-4 Brown PG ..lb. 2.30 - —
p-24 Gray L ..lb. 1.60 - —
p-14 Brown EB ..lb. 1.51 - —
p-80 Diazo brilliant scarlet ROAD lb. 2.79 - —
p-202 Diazo black VJ, conc ..lb. 1.74 - —
p-244 Brilliant scarlet BN ..lb. 1.31 - —
p-313 Naphthol SWF ..lb. 2.42 - —

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.
Black blue No. 550 ..lb. .81 - —
Jet No. 551 ..lb. .69 - —
Brown R, conc ..lb. 1.72 - —
Orange R, brilliant ..lb. .90 - —
Red 4B, conc ..lb. 1.37 - —
Yellow C ..lb. 1.18 - —
FN, conc ..lb. 1.22 - —

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works:—
Auramine O ..lb. 1.85 - —
Black, basic blue ..lb. 1.21 - —
Jet ..lb. 1.21 - —
Blue, methylene, 2 B, conc ..lb. 1.71 - —
Brown Bismarck R, conc ..lb. .86 - —
Chrysoidine, R, extra ..lb. .60 - —
Y extra ..lb. .64 - —
Fuchsine, conc ..lb. 3.08 - —
Green, malachite, conc ..lb. 2.10 - —
Rhodamine, B ..lb 4.55 - —
Safranine, Y, conc ..lb. 2.90 - —
Violet, methyl, B ..lb. 1.10 - —

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:—
Azo rubine R, extra conc ..lb. 1.04 - —
Black, acid blue, B, extra ..lb. .86 - —
Fast light, 3 G, extra ..lb. 2.04 - —
Methanil, conc ..lb. .91 - —
Orange acid, Y, conc ..lb. .47 - —
Scarlet croceine, MOO ..lb. 1.45 - —
Yellow, azo, conc ..lb. .90 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls ..lb. 1.10 - —
Egg albumin (see Albumin).
Yolk, dried, dom., bbls ..lb. 1.24 - 1.29
tanners, bbls ..lb. .06 - .06½
Elder flowers, bright, bls ..lb. .35 - .40
Elm bark, grinding, bls ..lb. .30 - .32
powd., bbls., bxs ..lb. .45 - —
select, bundles ..lb. .75 - —
Emetine hydrochloride, USP, bots oz.32.95 -35.00
Endrin, tech., dms., dlvd., basis 100% lb. 3.75 - —
Ephedrine, syn., USP, anhyd., bots., 100-oz. lots oz. .98 - 1.00
hydrous, bots., 100-oz. lots oz. .92 - —
Hydrochloride, tins, 100-oz. lots, oz. .75 - —
Sulfate, cryst., tins, 100-oz. lots, oz. .72 - —
powd., tins, 100-oz. lots oz. .73 - —
Epichlorohydrin, dms., c.l., dlvd lb. .39 - —
l.c.l., dlvd ..lb. .40 - —
tanks, dlvd ..lb. .37 - —
Epinephrine, syn., USP, bots., 100-gram lots gram. .45 - .55
Epsom salt (see Magnesium sulfate).
Ergosterol, unirradiated, cryst kilo.150.00 - —
Ergot, NF, dms., tin-lined ..lb 3.00 - —
Eserine salicylate, bots ..oz.35.75 - —
Sulfate, bots ..oz.39.50 - —
Ether (see specific product).
Ethyl acetate, nat. ferment., 85-88%, dms., c.l., frt. alld lb. .13 - —
l.c.l., frt. alld lb. .14 - —
tanks, frt alld lb. .11 - —
85-96%, dms., c.l., frt. alld, lb. .13½ - —
l.c.l., frt. alld. lb. .14¼ - —
tanks frt alld lb. .11¼ - —
99%, dms., c.l., frt. alld lb. .13½ - —
l.c.l., frt alld. lb. .14½ - —
tanks, frt. alld lb. .11½ - —
syn., 85-98%, dms., c.l., dlvd lb. .13 - —
l.c.l., dlvd. lb. .14 - —
tanks, dlvd lb. .11 - —
95-98%, dms., c.l., dlvd lb. .13¼ - —
l.c.l., dlvd. lb. .14¼ - —
tanks, dlvd lb. .11¼ - —
99%, dms., c.l., dlvd lb. .13½ - —
l.c.l., dlvd. lb. .14½ - —
tanks, dlvd lb. .11½ - —

Ethyl acetoacetate, dms., c.l., dlvd. lb. .58 - —
l.c.l., dlvd ..lb. .59 - —
tanks, dlvd ..lb. .56 - —
Acrylate, dms., c.l., t.l., dlvd lb. .41½- —
l.t.l., dlvd. lb. .41½- —
tanks, dlvd ..lb. .38¼- —
Aminobenzoate, USP (see Benzocaine).
Bromide, tech., 98%, dms., c.l., frt. alld. E lb. .41 - —
l.c.l., frt. alld E lb. .43 - —
Butyl ketone, dms., c.l., works lb. .35½- —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Butyrate, works lb. .80 - 1.02
Carbamate (see Urethane).
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works lb. .70 - —
smaller lots, works lb. .72 - .80
vis., 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works lb. .65 - .70
smaller lots, works lb. .67 - .81
Chloride, tech., cyl., works lb. .20 - .22
dms., works ..lb. .18 - .20
tanks, works ..lb. .10 - —
Cinnamate, cns. ..lb. 2.71 - 3.45
Ethanolamines, mixed, dms., c.l., frt. alld., E. Miss lb. .42½- —
l.c.l., same basis lb. .43½- —
tanks, same basis lb. .40½- —
indust., dms., c.l., dlvd. E lb. .12 - —
l.c.l., dlvd. E lb. .13 - —
tanks, dlvd. E lb. .10 - —
Ether, absolute, ASS, dms. ..lb. .27 - —
anesthesia, USP, hospitals, 1-lb. cns lb. .89 - —
½-lb. cns ..lb. .97 - —
¼-lb. cns ..lb. 1.05 - —

MONTROSE
CHEMICAL COMPANY
104-112 LISTER AVENUE
NEWARK, NEW JERSEY

tricresyl phosphate
dioctyl phthalate
dibutyl phthalate

EXCLUSIVE SALES AGENTS
R. W. GREEFF & CO., INC.
10 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.
2205 TRIBUNE TOWER, CHICAGO, ILLINOIS

Ethyl Ether, Indust.—Gold Chloride

Ethyl ether, indust., dms., c.l., dlvd. E lb. .12 - —
l.c.l., dlvd. E. lb. .13 - —
tanks, dlvd. E. lb. .10 - —
Gallate, dms., 100 to 2,000-lb. lots. lb. 3.90 - 4.40
Iodide, cbys., works lb 3.30 - —
Methacrylate, dms., c.l., and less than truckload, works, frt. equald. lb. .51½- .52
Morphine hydrochloride, USP, bots oz.11.85 - —
Nitrite (see Nitrous ether).
Oenanthate, dms. lb. 1.00 - 1.50
Oleate, dms., l.c.l., works lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethylorthosilicate).
40% available SiO_2, dms., dlvd. lb. .53½ —
N-Ethyl-a-naphthylamine dms., works, lb. 1.02 - —
N-Ethyl-o-toluidine, bbls lb. .88 - —
Ethylamine (see Mono Di- or Tri-)
N-Ethylaniline, dms., c.l., frt. alld. lb. .51 - —
l.c.l., frt. alld lb. .52 - —
tanks, frt. alld lb. .50 - —
Ethylbenzene, 99%, dms., c.l. lb. .19½ 20¼
l.c.l lb. .20½- 21¼
tanks lb. .18½- —
Ethylene dichloride, dms., c.l., dlvd lb. .10¼- —
l.c.l. same basis lb. .12¼- —
tanks, same basis lb. .09 - —
Ethylene dichloride prices W. of Rockies 1c per lb higher.

Ethylene glycol, dms., c.l., dlvd. E lb. .14¾- —
l.c.l., same basis lb. .15¾- —
tanks, same basis lb. .13 - —
Monobutyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd E lb. .21 - —
tanks, dlvd E lb. .18½- —
Monoethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E lb. .21 - —
tanks, dlvd E lb. .18½- —
Acetate, dms., c.l., dlvd. E lb. .18½- —
l.c.l. dlvd. E lb. .19½- —
tanks, dlvd. E lb. .16½- —
Monomethyl ether dms., c.l., dlvd. E lb. .20 - —
l.c.l. dlvd. E lb. .21 - —
tanks, dlvd. E lb. .18½- —
Acetate, dms., c.l., dlvd. E lb. .28¾- —
l.c.l., dlvd. E lb. .29¼- —
tanks, dlvd. E lb. .27 - —
Monostearate, triple pressed, dms lb. .34 - —
Oxide, dms., c.l., dlvd. E lb. .21 - —
l.c.l., dlvd. E lb. .24 - —
tanks, dlvd. E lb. .15 - —
Trichloride (see Trichloroethane).
Ethylenediamine 85-88% dms., c.l., dlvd. E., 100% basis lb. .46 - —
l.c.l., dlvd. E., 100% basis lb. .47 - —
tanks, dlvd. E., 100% basis lb. .44 - —
Ethylvanillin, cns., 25-lb. lots lb 6.75 - 7.30
smaller lots lb 7.35 - 7.40
Eucalyptol, USP cns., dms lb 1.40 - 1.50
Eugenol, USP bots. lb 2.70 - 3.55
Euphorbia herb, bls lb. .15 - .17

F

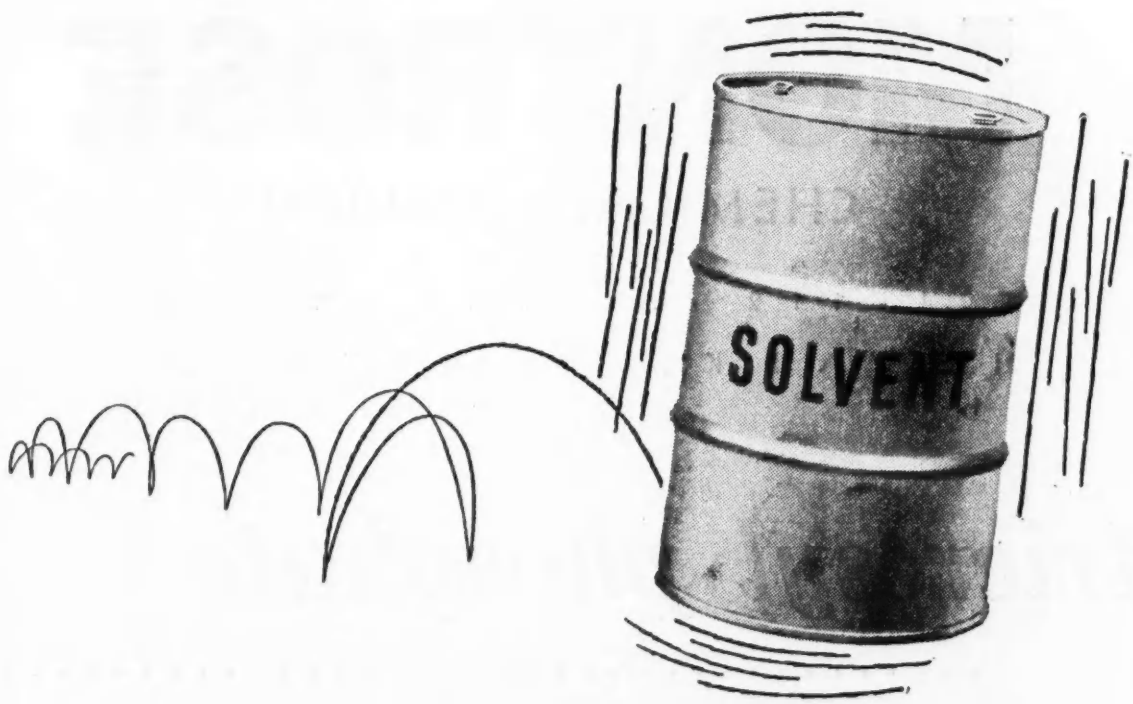
Feldspar, 140-200 mesh, bulk, c.l., works ton.19.50 - —
Feldspar in bags $3 per ton higher.
Fennel seed, Argentine, bgs. lb. .11½- —
Czech, medium, bgs. lb. .11½- —
Indian, light, bgs lb. .11½- —
Fenugreek seed, Moroccan, bgs. lb. .08½- —
Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 - —
l.c.l., works lb. .09¾- —
soln., USP IX, cbys lb. .16 - —
dms. lb. .17 - —
Cacodylate, NF, bots lb.13.00 -14.00
Chloride, anhyd., tech., dms., c.l., works 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 8.00 - —
Indust. cryst., bbls., c.l., works. 100 lbs. 4.75 - 5.25
l.c.l., works 100 lbs. 5.75 - 6.25
42° Be, cbys., c.l., works, 100 lbs. 7.25 - 8.25
tanks, frt. equald, 100% basis 100 lbs. 3.25 - —
USP cryst., dms., works lb. .07½- .09
Citrate, gran., dms. lb. .86 - —
Glycerophosphate, NF, powd lb. 4.75 - 4.85
Hydrophosphite, NF, dms lb. 3.45 - —
Naphthenate liq., 6% Fe., dms., frt. alld lb. .25¾- —
Oxalate, gran., dms lb. .85 - .87
Phosphate, NF, soluble, gran., pearls, cs lb. .64 - .65
Pyrophosphate, NF VII, soluble, gran., pearls, dms lb. .78 - .81
Resinate, 6¾% Fe, dms., frt. alld. lb. .29½- —

Ferric stearate, dms., c.l., frt. alld lb. .37 - —
l.c.l., frt. alld lb. .38 - .42
Sulfate, partially hydrated, bgs., c.l., works ton.31.75 -33.75
l.c.l., works ton.34.75 -40.75
Ferric-ammonium citrate, brown, NF, gran., dms lb. .59 - —
green, USP XII, gran., dms lb. .59 - —
Oxalate, fine gran., dms lb. .25½- .28½
Ferric-potassium, oxalate, fine gran., dms lb. .30½- .33½
Ferric-sodium oxalate, fine gran., dms lb. .25½- .28½
Ferrous gluconate, NF, dms lb. .88 - —
Sulfate, gran., bgs., c.l., works. ton.34.50 - —
l.c.l., dlvd. Metropolitan area 100 lbs 3.35 - 4.25
bbls. c.l., works ton.10.00 - —
bulk, c.l., works ton 27.00 - —
USP cryst., bbls., dms lb 09½- .10
Fir balsam, Canada, cns gal.32.00 - —
Oregon, bbls. lb. 4.00 - —
Fishliver oil (see Oil fishliver).
Fishmeal, menhaden, ground, domestic, 60% protein, bags, Balto area ton.146.00 Nom.
Fishscrap, menhaden, dried, 60% protein, bgs., Balto area ton.141.00 Nom.
Formaldehyde, NF, 37%, (inhibited), Zone 1, dms., c.l., dlvd lb. .0585- .062
l.c.l., dlvd lb. .0.7 - —
tanks, dlvd lb. .033 - —
Zone 2, dms., c.l., dlvd lb. .035 - —
tanks, dlvd lb. .0420- —
methanol-free (uninhibited), Zone 1, tanks, dlvd lb. .03 - —
Zone 2, tanks, dlvd lb. .0595- —
Fleaseed (see Psyllium seed).
Fringetree bark, bls lb. .60 .61
Fuller's earth, bgs., c.l., Ill. mines. ton.19 00 - —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines ton.17.50 - —
calcined, bgs., c.l., same basis ton.20.00- .21 75
oil-bleaching grade, 100-mesh, bgs., c.l., same basis ton.16.50 -17.00
200-mesh, bgs., c.l., same basis ton.17.50 -18.00
spent bgs., c.l., shipt. point ton. 4.50 - 5.00
Furfural, dms., c.l., works lb. .13 - —
l.c.l., works lb. .14 - —
tanks, dlvd. E lb. .12 - —
dlvd. W lb. .13 - —
Fusel oil, refd., dms., c.l., dlvd lb. .22 - —
l.c.l., dlvd. lb. .23 - —
tanks, dlvd. lb. .20 - —
Fustic extract, cryst., No. 1, bbls., l.c.l lb. .47½- —
No. 2, bbls., c.l lb. .45½- —
No. 3, bbls l.c.l lb. .43½- —
liq., No. 1, bbls., l.c.l. lb. .22½- —
No. 2, bbls. c.l lb. .21½- —
No. 3, bbls., l.c.l lb. .19 - —
solid, No. 1, bxs., l.c.l. lb. .45 - —

G

G salt, 100% basis, bbls. frt alld lb. .73 - —
Gammapicoline (see g-Picoline).
Gelatin, edible, pure (pork skin), 75 Bloom test, bbl., c.l. lb. .53 - —
150 Bloom test, bbl., c.l. lb. .64 - —
200 Bloom test, bbl., c.l. lb. .71 - —
225 Bloom test, bbl., c.l. lb. .74 - —
275 Bloom test, bbl., c.l. lb. .81 - —
Gelsemium root, bls lb. .23 - .24
Gentian root, bls lb. .17 - .20
grd., bbls., bxs lb. .22 - .23
powd., bbls., bxs lb. .23 - .24
Geraniol, extra, cns., dms lb. 3.20 - —
standard, cns., dms lb. 2.85 - —
Geranyl acetate, cns lb. 3.20 - —
Ginger, oleoresin, NF, from African root, bots lb. 4.00 - 7 75
from Jamaican root, bots lb. 6.00 -10 25
Root, African, bls. lb. .32 - .33
Jamaica, No. 1, bgs. lb. No prices.
No. 2, bgs. lb. .45 - —
No. 3, bgs. lb. .44 - —
Nigerian, split, bgs. lb. .28 - .28½
Glauber's salt, anhyd. (see Sodium sulfate).
Glue, bone, extracted, 86 jellygrams, bgs., c.l., dlvd lb. .17 - —
104 jellygrams, same basis lb. .19 - —
131 jellygrams, same basis lb. .21 - —
164 jellygrams, same basis lb. .23 - —
191 jellygrams, same basis lb. .25 - —
222 jellygrams, same basis lb. .26 - —
packers' 40 jellygrams, bgs., c.l., dlvd lb. .15½- —
65 jellygrams, same basis lb. .16½- —
86 jellygrams, same basis lb. .17 - —
115 jellygrams, same basis. lb. .17½- —
135 jellygrams, same basis lb. .18½- —
164 jellygrams, same basis lb. .19½- —
renderers' 100 jellygrams, bgs., c.l., dlvd lb. .15 - —
Bone glue, l.c.l., prices 1c. higher.
Hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .16 - —
95-121, bgs., c.l., dlvd. lb. .18 - —
122-149, bgs., c.l., dlvd. lb. .20 - —
150-177, bgs., c.l., dlvd. lb. .225 - —
178-206, bgs., c.l., dlvd. lb. .25 - —
207-236, bgs., c.l., dlvd. lb. .275 - —
237-266, bgs., c.l., dlvd lb. .30 - —
267-298, bgs., c.l., dlvd lb. .32 - —
299-330, bgs., c.l., dlvd lb. .34 - —
331-362, bgs., c.l., dlvd lb. .36 - —
363-394, bgs., c.l., dlvd lb. .37 - —
395-427, bgs., c.l., dlvd lb. .38 - —
428-460, bgs., c.l., dlvd lb. .39 - —
461-494, bgs., c.l., dlvd lb. 40 - —
495-529, bgs., c.l., dlvd lb. .41 - .42
Hide glue l.c.l. prices 1c. higher.
Glycerine, nat., crude, saponification, 88% to refineries, tanks, works lb. .23 Nom.
soaplye, 80%, tanks, works lb .21 Nom.
refd., BP, 98%, dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
dynamite, dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
high gravity, dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
USP, CP, 95%, dms., c.l., dlvd. lb. .29½- —
l.c.l., dlvd lb. .30 - —
tanks, dlvd lb. .29 - —
yellow, distilled, dms., c.l., dlvd lb. .30 - —
l.c.l., dlvd lb. .30½- —
syn., dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
Glycine (see Acid aminoacetic).
Glycerol (see Glycerine).
Glyoxal, 30%, dms., c.l., works lb. .18½- —
l.c.l., works lb. .19 - —
tanks, works lb. .18 - —
Gold chloride, acid-brown, bots oz.22.50 -23 00
acid-yellow, bots oz.20.00 -20.50

can a Solvent be "ebullient"?



Celanese* n-Butanol is more and more active in the new nitrocellulose developments

An article in CHEMICAL WEEK back in November (we'll send you a reprint if you missed it) described n-Butanol as "ebullient." We agree.

The new hot-spray lacquers are a case in point. Fewer coats and higher gloss are making these nitrocellulose lacquers more and more popular in automobile application. Another growing use for butanol is in butylated resins. But if your interest lies here, we recommend Celanese* n-Butyl Formcel*—a relatively water-free solution of Celanese Formaldehyde in Celanese n-Butanol. You skip 2 whole steps in the production cycle!

In any use, make Celanese your synthetic source for high purity n-butanol and its active partner, n-butyl acetate. Buy in combination carloads and save money. Get the complete "ebullient" story from your Celanese representative. Celanese Corporation of America, Chemical Division, Dept. 656-B, 180 Madison Avenue, New York 16, N.Y.

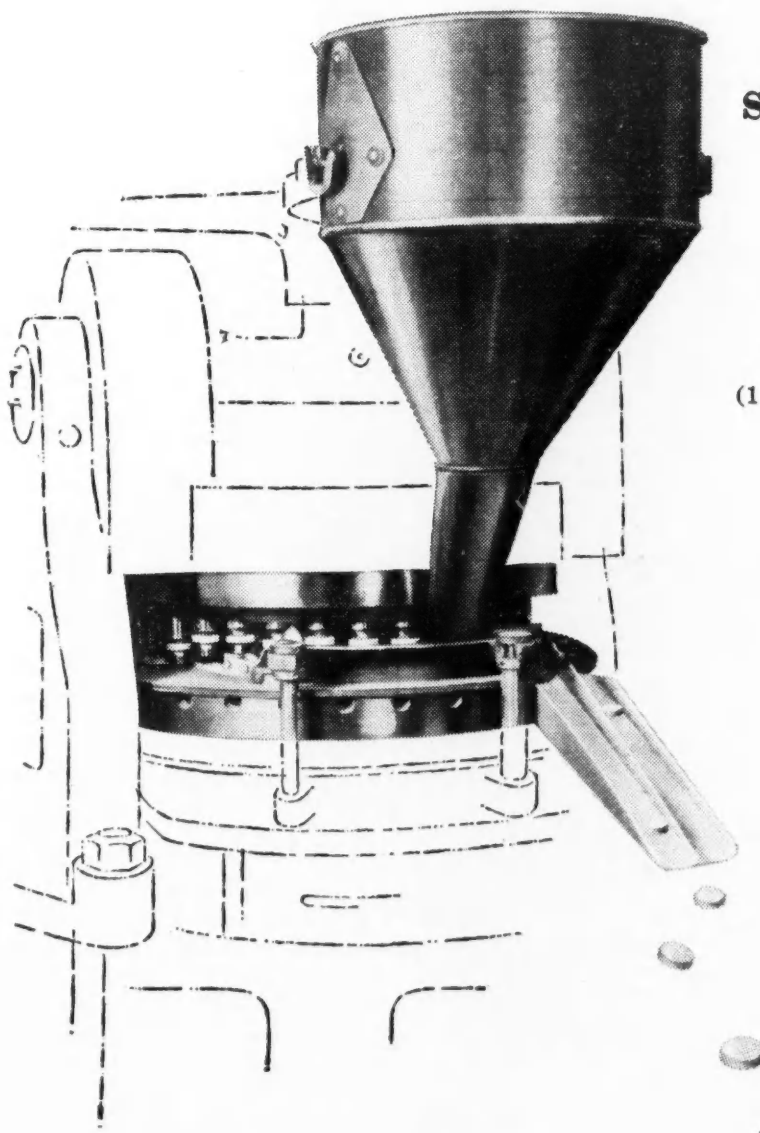
SPECIALIZED SOLVENTS
- Special Solvents
- Acetone
- Methanol
- n-Butyl Acetate
- n-Propyl Acetate
- n-Propyl Alcohol
- Isobutanol

Celanese* CHEMICALS

*Reg. U. S. Pat. Off.

Mallinckrodt **magnesium trisilicate**

simplifies production problems



Pharmaceutical manufacturers, in using Mallinckrodt **Magnesium Trisilicate,** find these advantages: (1) controlled bulk assuring dependable density which results in less computation, (2) high acid adsorbent capacity, (3) uniform white color, (4) free-flowing qualities, (5) uniform particle size, (6) consistent smoothness.

Magnesium trisilicate is an ideal antacid because it is inexpensive, tasteless, non-astringent, neither constipating nor laxative in therapeutic doses, and does not produce alkalosis.

Why three forms? Mallinckrodt **Magnesium Trisilicate USP** is supplied in *powder* form designed for use in manufacture of capsules, powders, tablets and wafers; in *bulky* form for colloidal creams, powders and suspensions; and in *special bulky* form for suspensions, colloidal creams and powders.

whatever your chemical needs...

You can depend upon Mallinckrodt to supply quality chemicals *promptly* and in a *controlled physical form* to meet your specifications. This reputation has been earned over a period of 88 years of consistent *service* to pharmaceutical manufacturers. Call or write us about your chemical requirements.

PRIME PRODUCER OF CHEMICALS FOR THE PHARMACEUTICAL INDUSTRY

Mallinckrodt® Since 1867

Mallinckrodt Chemical Works

Mallinckrodt Street, St. Louis 7, Mo....72 Gold Street, New York 8, N. Y.

Chicago • Cincinnati • Cleveland • Los Angeles • Philadelphia

San Francisco • Montreal • Toronto

Golden Seal Root—Isobutyl Acetate

Golden seal root, NF, tested, bls. lb 2.25 - 2.50
powd., bxs lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09½
crystalline, 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2 90-95%, bgs., fib. dms., ex whse lb. .29 .31
Grease, brown, tanks, dlvd. lb. .06¼- —
house, tanks, dlvd. lb. .07¼- —
white, choice, not all hog, tanks, dlvd lb. .08⅝- —
yellow, tanks, dlvd. lb. .07⅜- —
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs, works. lb. 5.10 - —
tungstated, PTMA, kgs., works lb 6.00 - —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., gvd. N. of Tenn. and N. C., E of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .38 - —
16-30%, bbls., same basis lb. .39 - —
31-45%, bbls. same basis, lb .40 - —
45-48% bbls. same basis. lb. .43 - —
50% bbls. same basis lb. 48 - —
Green chrome reduced color, 25%, bbls., same basis lb. .19 - —

Chrome green prices are ½c. higher, dlvd., at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1½c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

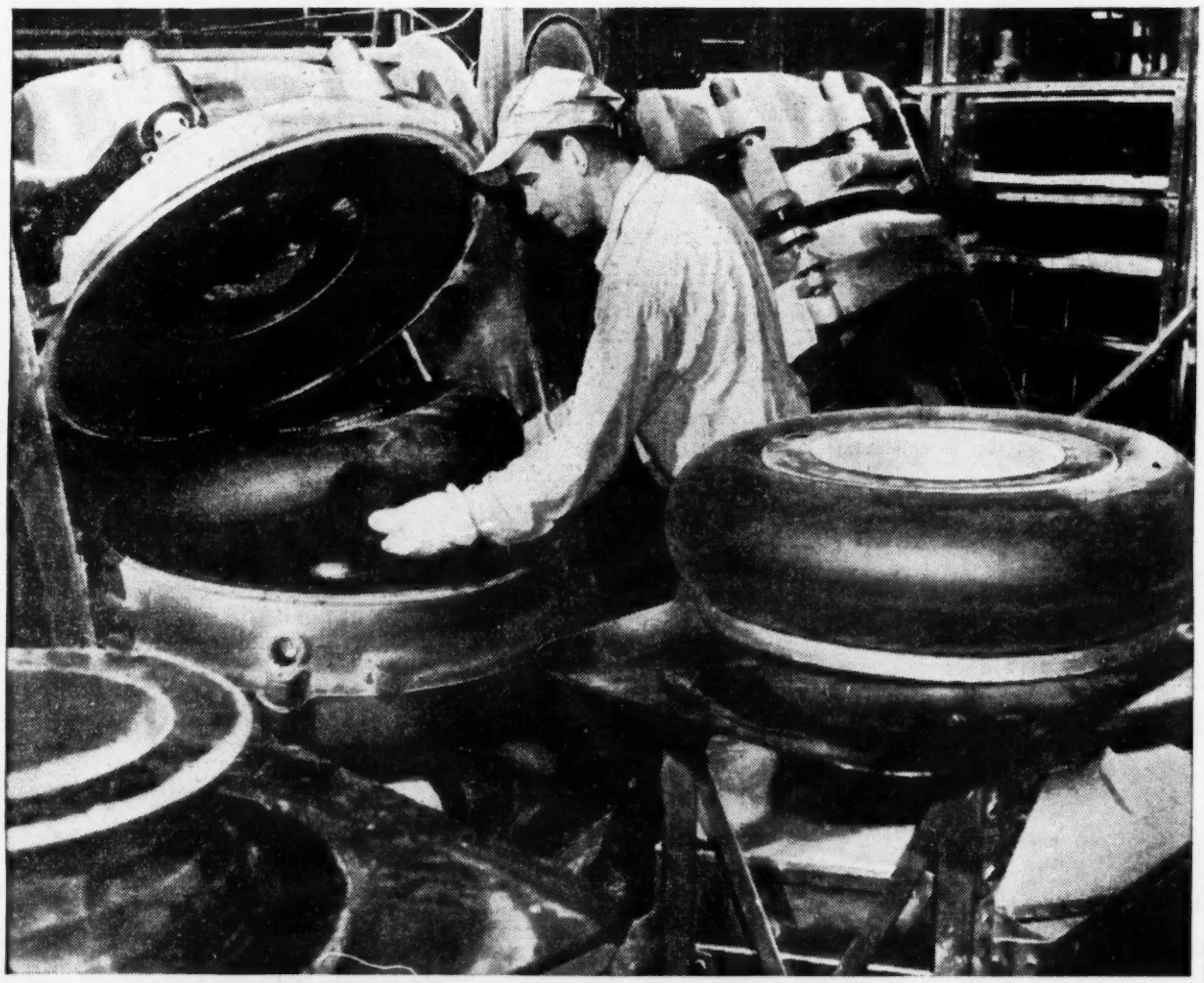
Chromium oxide hydrated, bbls., dms., c.l., frt. alld lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld lb. .59¼- —
l.c.l., same basis lb. .39¾- —
Dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works lb. 4.60 - —
Paris (see Paris green).
Phthalocyanine toner, bbls., works. lb. 3.95 - —
resinated, bbls lb. 3.50 - —
water dispersable, bbls lb. 1.71 - —
Pigment B kegs lb. 1.35 - —
paste, kegs lb. .38 - —
Grindelia robusta herb, bls lb. .38 - .40
Guaiacol, NF, cryst., dms., tins lb 2.10 - 2.15
liq., cbys., dms lb. 2.30 - 2.40
Carbonate, NF VII, dms lb 3.40 - 3.45
Gum, aloe (see Aloe).
Arabic, amber, sorts, bgs lb. .23 - .25
powd., USP, bbls lb. .28 - .30
Asafetida (see A).
Asphaltum (see A).
Benzoin Sumatra, cs lb. .38 - .42
Camphor (see C).
Gum, cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —
Copal, Congo, No. 1, bgs lb. .21 - .23
No. 2, bgs lb. .18½- .20
No. 3, bgs lb. .16½- .18
Manila C, bgs lb. .42 - .44
CBB, bgs lb. .35 Nom.
DBB, bgs lb. .31 - .33
DK, bgs lb. .22 - .24
dust, bgs lb. .14 - .16
MA, soft, bgs lb. .22 - .24
WS, bgs lb. .34 - .36
Copal, Philippine, pale, chips, bgs lb. .24 - .26
nubs, bgs lb. .34 - .36
seeds, bgs lb. .20 - .22
sorts, bgs lb. .22 - —
Pontianak, chips, bgs lb. .25 - —
nubs, bgs lb. .39 - .40
Dammar, Batavia, AAM, cs lb. .27 - .29
dust, bgs lb. .16½- .17½
E, bgs lb. .20 - .22
East India, batu, bold, bgs lb. .14 - .15½
nubs and chips, bgs lb. .08 .09
black, bold, bgs lb. .14 - .16
unscraped, bgs lb. .11 - .13
nubs and chips, bgs lb. .11 - .13
pale, chips, bgs lb. .13½- .14½
nubs, bgs lb. .18 - .20
Siam, cs lb. .35 - .37
Singapore, No. 1, bgs lb. .43 - .44
No. 2, bbls lb. .27 - .29
No. 3, bbls lb. No stocks.
dust, bgs lb. .16½- .17
seeds, bgs lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd, Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .15½- —
wood-rosin type, dms., c.l., same basis lb. .15 - —
Gum, Karaya, No. 1, NF, powd., bbls lb. .48 - .50
No. 2, powd., bbls lb. .36 - .38
No. 3, powd., bbls lb. .30 - —
Locust bean, powd., bgs lb. .31 - .33
Myrrh, cs lb. .38 - .40
Opium (see O).
Olibanum siftings, cs lb. .15 - .20
tears, cs lb. 22 .30
Rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs lb. 3.00 - 3.50
No. 2, cs lb. 2.55 - 2.60
No. 3, cs lb. 1.75 - 1.80
powdered, USP, bbls lb. 1.25 - 1.35
Gypsum, plaster of paris, 100-lb. paper bags, ex dock, N. Y. C. ton 55.00 - —
terra alba, dom., same basis ton. 19.00 - —
works, N. Y. C. ton. 16.00 - —
imp. English, 100-lb. paper bags, ex dock, N. Y. C. ton 55.00 - —
ex warehouse ton. 60.00 -62.00

H

Hawthorn berries, bgs. lb. .28 - .32
Heliotropin, cryst., cns lb. 3.50 - 4.25
Hellebore root dom green, bls lb. .55 - .65
Helonias root, bls lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. lb. .43 - —
No. 3, bbls., l.c.l. lb. .41 - —
No. 4, bbls., l.c.l. lb. .39 - —
No. 5, bbls., l.c.l. lb. .37 - —
paste, No. 1 bbls., l.c.l. lb .20½- —
Henbane leaves, bls lb. .35 - .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾- —
Borger, Tex gal. .14¾- —
Hesperidin methylphalcone, bots., works lb. 50.00 - —
Hexachlorophene, dms lb. 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .222 - —
1,000-19,999-lb. lots lb. .232 - —
smaller lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots, same basis lb. .249 - —
USP, dms., 500-lb. lots or more, same basis lb. .40½- —
smaller lots, same basis lb. .41½- —
Hexamine (see Hexamethylenetetramine).
Hexane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .15½- —
Borger, Tex gal. .15½- —
1-Hexanol, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.50 - 7.50
Salicylate, dms. lb. 1.75 - —
Hexylene, glycol, dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .14 - —
n-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb. 14.00 - —
smaller lots, dlvd. lb. 14.50 - —
Histamine diphosphate, USP, bots. kilo 450.00 - —
l-Histidine hydrochloride, NF, fib. dms., 50-kilo lots, works, kilo 80.00 -85.00
1-5 kilo lots, works kilo. 90.00 -95.00
Homatropine hydrobromide, USP bots oz. 8.50 - —
Methlbromide, USP, bots oz. 7.25 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 7.00 - —
Horehound herb, bls lb. .16 - .19
Hyoscine salts (see Scopolamine).
Hydrastine bots oz. 29.50 -31.00
Hydrochloride, NF, bots oz. 29.50 -31.00
Sulfate, bots oz. 25.00 -27.00
Hydrastinine, 10-grain bots bot 1.95 - —
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., Lake Charles, La lb. 3.00 - 3.30
Hydrate, 100%, ret. dms., Lake Charles, La lb. 1.60 - 1.90
85%, ret. dms., same basis lb. 1.35 - 1.55
Hydrocortisone acetate, bulk, bots., dms gram. 6.00 - —
alcohol, bulk, bots., dms gram. 6.00 - —
Hydrofuramide, dms., fib. ctns., works lb .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 - —
l.c.l., works lb. .55 - .60
Fluoride anhyd., cyls., dlvd. E lb. .30½- .32½
dlvd. W lb. .39 - —
tanks, works lb. .21 - —
Peroxide, USP, bbls., dlvd. lb. .03¾- .05
35%, dms., c.l., dlvd lb. .202 - —
l.c.l., dlvd. lb. .211 - —
tanks, dlvd. lb. .1800- —
Hydroquinone photo grade bbls. dms. lb. .90 - 1.00
tech., dms., c.l., dlvd lb. .77½- —
l.c.l., same basis lb. .79½- —
Hydroxycitronellal, cns lb. 5.10 - 6.00
Hyoscyamine, bots oz. 15.75 -16.00
Hydrobromide, bots oz. 11.00 -12.00
Sulfate, bots oz. 10.50 -11.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 - —
liq., No. 1, bbls., l.c.l. lb. .35 - —
No. 2, bbls., l.c.l. lb. .27 - —

I

Ichthammol, NF, dms lb. .60 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indole, CP, bots lb. 17.00 -21.00
Inositol, bots., dlvd lb. 5.00 - —
dms., dlvd. lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.45 - —
resub, USP, jars, dms lb. 2.30 - 2.32
Iodochlorohydroxyquinolin, USP, dms lb. 5.90 - —
a-Ionone, cns lb. 7.15 - 8.10
b-Ionone, cns lb. 6.80 -11.25
Methyl (see under M)
Ipecac root, bgs lb. 8.50 - 9.00
powd., bbls., bxs lb. 9.25 - —
Irish moss, bleached, prime, bls lb. .30 - .35
Iron Compounds (see Ferric or Ferrous).
Isoborneol, cns lb. 1.25 - 1.70
Isobornyl acetate, cns lb. .62 - .95
formate, dms. lb. .80 - —
Propionate, dms lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, cns lb. .75 - 1.00
solvent grade, dms., c.l., dlvd E. of Rockies lb. .13¼- —
l.c.l., same basis lb. .14¼- —
tanks, same basis lb. .11¼- —



From Accelerators to Wetting Agents— Rohm & Haas Methylamines

Rohm & Haas methylamines are ideal low-cost sources of basic organic nitrogen. They can be used as intermediates for many products, including rubber accelerators, pesticides, surfactants, quaternary disinfectants, pharmaceuticals, photographic developers and dyestuffs.

All three amines, mono-, di-, and trimethylamine, are supplied in both aqueous and anhydrous form, in drums, cylinders, or tank-cars. Large volume production in two separate plants guarantees you continuing availability; Rohm & Haas' twenty years experience in producing and handling methylamines assures you products of high purity and uniform, dependable quality.

Detailed, authoritative literature covering the use of these products is offered to assist you in research, process development, and plant design.

CHEMICALS FOR INDUSTRY

ROHM & HAAS COMPANY

WASHINGTON SQUARE, PHILADELPHIA 5, PA.

Representatives in principal foreign countries

Isobutyraldehyde, CP, dms., c.l., dlvd lb. .27½ - —
l.c.l., dlvd lb. .28½ - —
tech., dms., c.l., dlvd lb. .21½ - —
l.c.l., dlvd lb. .22½ - —
tanks, dlvd lb. .19½ - —
Isoeugenol, cns lb. 3.45 - 4.25
Isoniazid, powd., bulk, 25-kilo lots or more kilo 23.00 - 25.50
smaller lots kilo 24.00 - 26.00
Isopentane, coml. grade, tanks, f.o.b. Tex. refy gal. .15½ - —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works lb. .24¼ - —
l.c.l., works lb. .24¾ - —
tanks, works lb .22½ - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .12 - —
l.c.l. same basis lb. .13 - —
tanks, same basis lb. .10 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether, dms., c.l., dlvd lb. .07 - —
l.c.l. dlvd lb. .08 - —
tanks, dlvd lb .05 - —
Isopropyl-N-(3-chlorophenyl) carbamate, 70% CIPC in xylol, dms., c.l., t.l., works lb. .70 - —
l.c.l., works lb. .714 - .814
Isopropyl-N-phenyl carbamate, 450-lb. fib. dms., c.l., t.l., works. lb. .75 - —
l.c.l., works lb. .80 - .90
Isopropylamine (see Mono, Di, or Tri-).
Isoquinoline, dms., works lb. 85 - 1.25

J

Jalap root NF bls lb. .38 - .55
powd., bbls., bxs lb. .49 - .66
Juniper berries, bgs lb. .18 - .20
Tar, NF, dms lb. .42 - .60

K

Kaolin (see also Clay China).
NF, powd., fib. dms lb. .03 - .16½
colloidal, fib. dms lb. .15 - .15¼
Kola nuts bgs lb. .12 - —

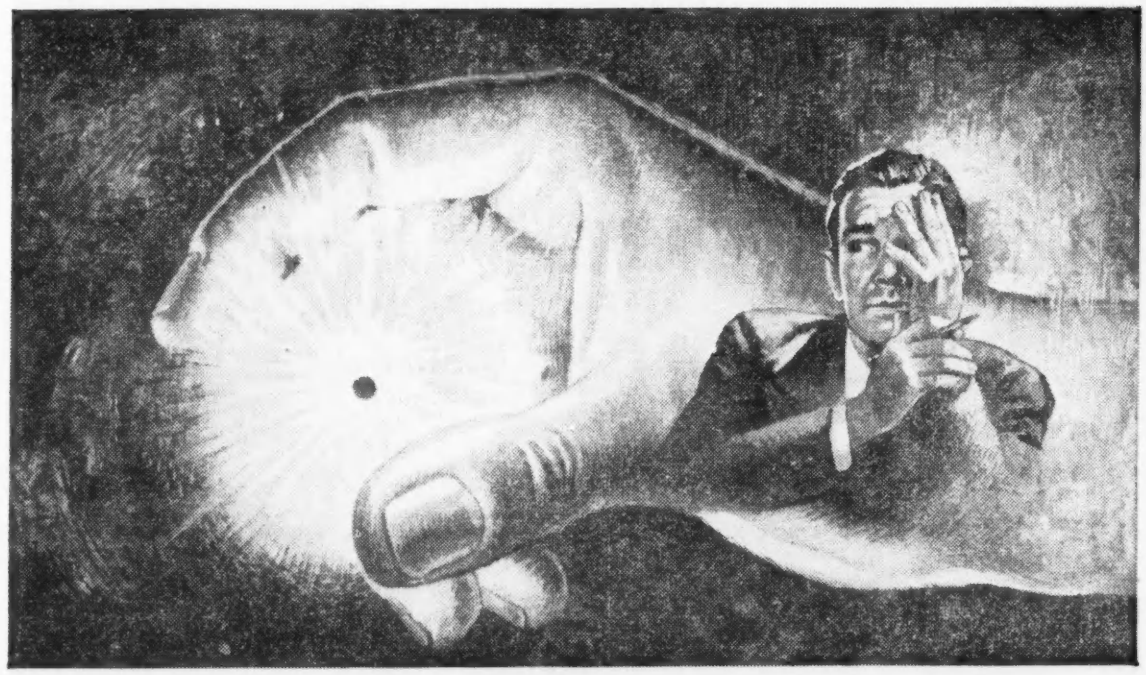
L

Lactose, crude, bgs., c.l., works lb. .15 - —
edible, fib. dms., 30,000-lb. lots, works lb. .22 - —
2,000-lb lots, works lb. .22¾ - —
200-1,800-lb lots, works lb. .23¼ - —
Edible lactose in bgs., 1c. lower.
USP, fib. dms., 30,000-lb. lots, works lb. .24 - —
2,000-lb lots, works lb. .24¾ - —
200-1,800-lb lots, works lb. .25¼ - —
USP lactose in bgs., 1c. lower.
Lady's slipper root, bls lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .28 - .30
USP, anhyd., dms., works lb. .26 - .28
hydrous, dms., works lb. .25 - .27
Lard, cash, dms., Chicago lb. .12375 - —
Larkspur seed, bgs lb. .20 - .23
n-Lauryl chloride, dist., dms., c.l., works, frt. equald lb. .74 - —
l.c.l. same basis lb .73 - —
Methacrylate, dms., c.l., or t.l., works lb. .65½ - —
Lavender flowers, medium, bls lb. .55 - .60
ord., bls lb. .16 - .20
select, bls lb. .90 - —
Lead acetate, white, cryst., bbls lb. .23 - —
gran, bbls lb. .22 - —
powd., bbls lb. .23 - —
NF, cryst., gran., powd lb. .31 - .32
Arsenate, acid powder, dealers, 3-lb. bgs, or larger, c.l., frt. alld. on 96 lbs. or more lb. .27½ - —
l.c.l., frt alld lb. .28½ - —
1-lb bgs., c.l. lb. .47½ - —
l.c.l. lb. .42½ - —
Blue, basic sulfate, bbls., c.l., shipt. point, frt. alld lb. .15¾ - —
l.c.l., same basis lb. .16¾ - —
Carbonate (see Lead, white).
Chloride, dms. lb. .45 - —
Iodide, NF, V jars lb. 3.82 - —
Linoleate, fused, 26-28% Pb, dms. lb. .33 - —
Metal, pigs, prime, N. Y. lb. .15 - —
St. Louis lb. .1480- —
Metallic paste, dms., 20,000-40,000-lb. lots, works lb. .33¾ - —
10,000-20,000-lb. lots same basis lb. .34¾ - —
2,000-10,000-lb. lots, same basis lb. .35¼ - —
200-2,000-lb. lots, same basis. lb. .35¾ - —
Prices ex wnse. Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l., works, frt. equald lb. .1380- —
l.c.l. same basis lb. .1630- —
Naphthenate, liq., 16% Pb, dms., dlvd lb. .17¼ - —
24% Pb, dms., dlvd lb. .23¾ - —
solid, 37% Pb, dms., dlvd lb. .31¼ - —
Nitrate, bbls lb. .22¼ - —
Orthosilicate gel., 50%, Pb_3O_4, dms., works lb. .22¾ - —
60% PbO, dms., works lb. .27½ - —
Peroxide, tech., powd., bbls lb. .38¾ - .40¼
Phthalate, dibasic, dms., works lb. .41 - —
Red, 93% Pb_3O_4, or less, bbls., c.l., works, frt. equald lb. .17½ - —
l.c.l., same basis lb. .18 - —
97% Pb_3O_4, bbls., c.l., same basis lb. .17¾ - —
l.c.l., same basis lb. .18 - —
98% Pb_3O_4, bbls., c.l., same basis lb. .18 - —
l.c.l., same basis lb. .18½ - —
Resinate, precip., 23% Pb, dms., dlvd lb. .32¼ - —
Salicylate, normal, dms. works lb. .46 - —
Sulfate (see Lead, blue, basic sulfate, Lead, white, basic sulfate).
Tallate, liquid, 16% Pb, dms. lb. .15¼ - —
24% Pb, dms lb. .20¼ - .20½
White, basic carbonate, bgs., c.l., shipt. point, frt. alld lb. .17½ - —
l.c.l., same basis lb. .18½ - —
basic silicate, bgs., c.l., shipt. point, frt. alld lb. .16 - .19¼
l.c.l., same basis lb. .17 - .20¼
basic sulfate, bgs., c.l., shipt. point, frt. alld lb. .15¾ - —
l.c.l., same basis lb. .16¾ - —
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works lb. .15 - .17
l.c.l., same basis lb. .15½ - .17½
unbleached, non-ret., dms., c.l., same basis lb. .13 - .15
l.c.l., same basis lb. .14½ - .16½
dl-Leucine, dms., works lb. 12.25 - 15.00
Licorice root, whole, bbls lb. .10 - .12
gran., bbls lb. .15 - .17
powd., bbls lb. .12 - .15
Lignosulfonate, 70% tannin, bgs., c.l., works lb. .06½ - —
l.c.l., works lb. .06¾ - —

Lime, agricultural bulk, works ton 14.50 - —
Chemical (quicklime) lump pebble bulk, Adams, Mass ton 12.50 - —
Annville, Pa ton 11.50 - —
Bellefonte, Pa. ton 11.50 - —
Buffalo, N. Y. ton 14.00 - —
Cedar Hollow, Pa ton 11.50 - —
Duluth, Minn. ton 13.50 - —
El Paso, Texas ton 14.00 - —
Farnams, Mass ton 14.00 - —
Gibsonburg, Ohio ton 12.50 - —
Hannibal, Mo ton 10.00 - —
Keystone, Ala. ton 10.25 - —
Kimballton, Va. ton 10.25 - —
Knoxville, Tenn. ton 10.50 - —
Lee, Mass. ton 12.50 - —
Lewisburg, Ohio ton 10.00 - —
Limedale, Ark. ton 11.00 - —
Los Angeles, Cal. ton 25.10 - 26.84
Marble Cliff, Ohio ton 10.00 - —
Martinsburg, W. Va. ton 11.00 - —
McNeil, Tex. ton 11.00 - —
Mosher, Mo. ton 11.25 - —
Nelson, Ariz. ton 14.50 - 23.63
Quincy, Ill. ton 10.00 - 12.00
Reddick, Fla ton 13.50 - —
Scotrock, Ala. ton 10.25 - —
Springfield, Mo. ton 11.25 - —
Winooski, Vt. ton 15.50 - —
Woodville, Ohio ton 11.50 - —
York, Pa ton 13.50 - —
Hydrated, paper bgs., Adams, Mass ton 15.50 - —
Annville, Pa ton 14.50 - —
Bellefonte, Pa ton 14.50 - —
Buffalo, N. Y. ton 16.00 - —
Cedar Hollow, Pa ton 14.50 - —
Chicago, Ill. ton 15.00 - —
Duluth, Minn. ton 15.00 - —
El Paso, Texas ton 17.50 - —
Engle, W. Va. ton 17.50 - —
Farnams, Mass. ton 14.00 - —
Gibsonburg, Ohio ton 16.50 - —
Lime, hydrated, paper bgs., Hannibal, Mo. ton 12.00 - —
Keystone, Ala. ton 13.50 - —
Kimballton, Va. ton 13.50 - —
Knoxville, Tenn. ton 13.00 - —
Lee, Mass. ton 15.50 - —
Lewisburg, Ohio ton 14.00 - —
Limedale, Ark. ton 13.50 - —
Marble Cliff, Ohio ton 13.50 - —
McNeil, Tex. ton 14.50 - —
Meneminee, Mich. ton 14.00 - —
Mosher, Mo. ton 13.50 - —
North Tazewell, Va. ton 12.75 - —
Quincy, Ill. ton 10.00 - 12.00
Reddick, Fla ton 16.00 - —
Scotrock, Ala. ton 13.50 - —
Springfield, Mo. ton 13.50 - —
Winooski, Vt. ton 15.50 - —
Woodville, Ohio ton 14.50 - —
York, Pa ton 14.50 - —
Spray, paper bgs., Adams, Mass. ton 17.00 - —
Annville, Pa ton 17.00 - —
Bellefonte, Pa ton 17.50 - —
Carey, Ohio ton 11.00 - —
Duluth, Minn. ton 17.50 - —
Engle, W. Va. ton 14.50 - —
Farnams, Mass. ton 14.00 - —
Gibsonburg, Ohio ton 16.50 - —
Keystone, Ala. ton 13.50 - —
Kimballton, Va. ton 13.50 - —
Lee, Mass. ton 17.00 - —
Lewisburg, Ohio ton 16.00 - —
Marble Cliff, Ohio ton 16.00 - —
McNeil, Tex. ton 14.50 - —
Menominee, Mich. ton 14.00 - —
Mosher, Mo. ton 13.50 - —
North Tazewell, Va. ton 12.75 - —
Reddick, Fla. ton 16.00 - —
Rockland, Me. ton 10.00 - —

Lime, spray, paper bgs., Springfield, Mo. ton 13.50 - —
Scotrock, Ala. ton 13.50 - —
Winooski, Vt. ton 17.00 - —
Woodville, Ohio ton 16.50 - —
York, Pa ton 15.50 - —
Lime salts (see Calcium).
Lime-ammonia nitrogen 20.5% N (see Ammonium nitrate with dolomite).
Limestone, grd., bgs., works ton 3.50 - 4.00
Linalool, ex bois de rose oil, dms. lb. 7.35 - 7.65
ex lignaloe wood oil, dms lb 5.30 - 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms lb 6.75 - 7.05
96-98%, dms lb 6.75 - 7.15
ex petitgrain, bots lb. 3.90 - 5.25
Lindane, 25% formulation, dealers, dms., works lb 1.58 - —
99%, tech., dealers, dms., dlvd., lb 3.10 - —
Linden flowers with leaves, bls lb. .30 - —
without leaves, bls lb. .35 - —
Linseed meal, expeller, 32-34% bulk, Midwest, mills ton 69.00 - Nom.
extracted, 36% bulk, same basis, ton 64.00 - 65.00
Litharge, coml., powd., bbls., c.l., works, frt equald lb. .16½ - —
l.c.l., same basis lb. .17 - —
Lithium benzoate, dms lb 1.65 - 1.67
Bromide, NF, dms., works, frt. equald lb. 2.16 - —
Carbonate, NF, c.l., dms., works, or dlvd lb. 1.42½ - —
l.c.l., same basis lb. 1.43½ - 1.48½
tech., c.l., dms., works or dlvd. lb. .90 - —
l.c.l., same basis lb. .95 - 1.15

LITHIUM



.....the Miracle Element

LITHIUM presents properties that are stimulating to researchers, scientists and production-engineering men—properties that open the door to possibilities in numberless fields. Lithium metal is lighter than magnesium or aluminum. It is extremely reactive, ductile, easily extruded and rolled, and readily melted or cast.

Lithium salts have a low melting point. Analogous to both alkalies and alkaline earths, they are highly reactive and form numerous low melting eutectics.

"Genie of the chemical process industries," this near-magical element helps good products do more and better things. Organic chemicals, ceramics, air conditioning, greases, metallurgy, pharmaceuticals, brazing fluxes, atomic energy—all have benefited from employing Lithium to bring about many important improvements.

Why not look into this wonder chemical? It could mean profits for *you!*

... trends ahead in industrial applications for Lithium

LITHIUM CORPORATION OF AMERICA, INC.
Suite E
Rand Tower
Minneapolis 2, Minnesota

MINES: Keystone, Custer, Hill City, South Dakota • Bessemer City, North Carolina • Cat Lake, Manitoba • Amos Area, Quebec
CHEMICAL PLANTS: St. Louis Park, Minnesota • Bessemer City, North Carolina • RESEARCH LABORATORY: St. Louis Park, Minnesota

Lithium Chloride—Methyl Chloride

Lithium chloride, CP, anhyd., ton lots lb. 1.28½- —
tech., cryst., dms lb 1.10 1.25
Citrate, NF, dms lb 1.60 1.64
Fluoride, bbls., 10,000-lb. lots, dlvd. lb. 2.17½- —
ton lots, dlvd lb 2.18½- —
less ton lots, dlvd lb 2.23½- —
Hydride, powd., dms., works lb 15.00 - —
Hydroxide, monohydrate dms., c.l., t.l., dlvd lb. .97½- —
l.c.l., 1-ton lots or more, lb. .98 - .93½
Manganite, dms., works lb .95 1.15
N. rate, dms., 100-lb. lots lb. 2.25 - —
Salicylate dms lb 1.60 1.70
Silicate, dms., works lb 1.10 1.30
Sulfate dms., 100-lb. lots lb 1.45 —
Titanate dms., works lb. 1.15 1.35
Lithopone ord., bgs., c.l., dlvd lb 07½ —
l.c.l. dlvd. lb 08¼ .08½
titanated (high-strength), bgs., c.l., dlvd lb. .10 - —
l.c.l. dlvd lb .11 - —

Lithopone prices, Pacific Coast, 1c per lb. higher.

Lobelia herb, bls lb 1.25 Nom.
Lobeline sulfate, bots., works oz 29.50 -33.50
Logwood extract, cryst., No 1, bbls., l.c.l lb. .41 - —
No. 2, bbls. l.c.l lb .39 —
liq., No. 1, bbls., l.c.l lb .20 - —
No. 2, bbls. l.c.l lb .19 —
No. 3, bbls. l.c.l lb 18½- —
solid, No. 1, l.c.l. lb. .35 - —
Lycopodium, cs lb 1.50 —
dl-Lysine hydrochloride, bots kilo 140.00 150.00

M

Mace, Siauw, No. 1, bls. lb. 1.40 - —
West Indian, No. 1, bls lb. 1.39 - —
Magnesia, calcined, tech., bgs., ctns., works lb. .25¼ .26
syn. rubber grade, light, bgs., c.l., works lb. .29¼- —
l.c.l., works lb. .30 - —
extra light, works lb. .29¼- .30
USP, light, ctns lb. .35 - .36
heavy, bbls lb. .36 - .38
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton. 82.50 - —
dead-burnt, standard grain, bulk, c.l., Chewalah, Wash ton. 38.00 - —
Magnesium bromide, tars lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .10½- —
l.c.l., frt. equald lb. .12 - .13
truckloads, frt. equald lb. .11 - —
USP, bgs., c.l., frt. equald lb. .12½- —
t.l., frt. equald lb. .13 - —
l.c.l., frt. equald lb. .14 - .15

Above prices are quoted f.o.b. works, freight equalized with metropolitan New York and competitive producing points.

Chloride anhyd., 92% flake or pebble, dms., c.l., works. lb. .12¾- —
l.c.l., same basis lb. .14 - .15
hydrous, 99% flake, bgs., c.l., works ton. 50.00 —
l.c.l., bgs ton. 55.00 -105.00
Gluconate, dms., cns lb. 1.30 - 1.37
Glycerophosphate, dms., works lb. 5.40 - 5.50
Magnesium hydroxide, NF, medicinal, bbls., dms., kgs. lb. .26½- .30
Metal, 99.8% ingots, cs., works lb. .27 .2820
sticks, cs., works frt. alld. on carlots lb. .46 - .48
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb. .09 - .10
Sulfate, tech., bgs., c.l., works 100 lbs. 2.15 - —
l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 carload drawal 100 lbs. 3.10 - —
smaller lots 100 lbs. 3.35 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .38 - —
1,000-lb lots lb. .40 —
100-lb lots lb. .45 - —

Bulky and super grades of magnesium trisilicate, 7c per lb. higher

Malathion, dms., c.l., works lb. .94 - —
l.c.l., works lb. .96 - .98
Maleic anhydride, dms., c.l., dlvd. E lb. .27 - —
l.c.l. dlvd E lb. .28 - —
tanks, same basis lb. .26 - —

Prices on maleic anhydride W of Rockies, 1½c higher

Mandrake root, bls lb. .30 - .32
Manganese acetate, bbls., dlvd lb. .35 - —
Arsenate bgs lb .16 - —
Borate, tech., fib. dms lb. .25 - —
Carbonate, bbls., works lb. .22 - —
Chloride, anhyd., dms., works lb. .25½- —
Manganese dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, burlap paper lined, bgs., gross for net, works ton. 91.50 - —
paper bgs., works ton. 88.00 - —
dms., works ton. 94.00 - —

Prices for manganese dioxide in 10,000 to 40,000-lb lots, $3 per ton higher

Gluconate, dms lb. 1.79 - 1.93
Glycerophosphate, NF, fib dms lb 4.70 4.80
Hydrate, bbls., dlvd lb. .36 - —
Hypophosphite, NF, dms lb. 3.52 - —
Linoleate, liq., 4.35% Mn., dms. lb. .32½ —
solid, precip., 8.2% Mn, bbls lb. .37½- —
Metal, cs., dlvd. East lb. .50 .32
Naphthenate, liq., 6% Mn., dms., frt. alld lb. .27 —
Resinate, fused, 3½% Mn, dms. lb. .24 - —
precip., 6½-7% Mn, dms lb. .28 - —
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E ton. 80.50 —
l.c.l., dlvd. S. E ton. 87.50 - —
Tallate, 6% dms lb. .24 - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ton. 68.00 - —
So. American 30% tannin, c.l., ex dock ton. 55.00 -58.00
Mannitol, coml., bg. dms., ton-lots, works lb. .47 - —
dm. to ton lots, works lb. .50 - —
Melamine bgs. ton lots works lb 33 - —
500 to 2,000-lb lots, works lb 33½ —
smaller lots, works lb. .38½- —
Menadione, USP, bots gram .06 .06½
Menthol, nat., USP, Brazilian cs. lb. 8.25 - 8.50
syn., USP, racemic, cns lb 5.50 —
Menthyl salicylate, tins lb 4.00 4.25
2-Mercaptobenzothiazole, bgs., fib. cms. ton lots works frt. alld lb. .38 —
less ton lots, same basis lb. .40 —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld lb. .48 - —
less ton lots, same basis lb. .50 —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb. 4.98 —
gran. or powd., dms., 50-lb. lots or more lb. 4.78 —
Cyanide, NF VIII, powd., fib. dms. lb. 6.84 - —
Iodide, red, NF, fib. dms lb 7.72 - —
Oxide, red, NF, powd., fib dms lb. 5.97 6.01
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms lb. 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF lb. 7.72 - —
Mercury, ammoniated (see White precipitate USP).
Metal, 76 lb. per flask, net flask 322.00 -324.00
Mesityl oxide, dms., c.l., dlvd lb. .1350- —
l.c.l. dlvd. lb. .1450- —
tanks, dlvd. lb. .1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Choloraniline)
Metanitroaniline (see m-Nitroaniline)
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine)
Metalolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld gal. .70 - —

Prices on natural methanol W of Miss. 3c. higher.

syn., Zone 1, dms., c.l., dlvd., or truckload min., frt. alld. gal. .42 - —
l.c.l., same basis gal. .48 - —
tankwagon, 2-4,000 gals., dlvd., Metropolitan areas gal. .30 - —
tanks, dlvd., or 4,000 gal. min., frt. alld gal. .27 - —
4,000 gal. min., frt. equald. with Camden, N. J gal. .25½- —
Zone 2, dms., c.l., or truckload min., frt. alld. or dlvd gal. .47 - —
l.c.l., same basis gal. .53 - —
tankwagon, 2,-4,000 gals. min. dlvd. Metropolitan areas, gal. .35 - —
Zone 2, tanks, 4,000 gal., min., frt. alld. or dlvd gal. .32 - —

Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).
dl-Methionine, fib. dms., frt. alld., 50-lb. or more lb. 3.50 - —
feed grade, 98% fib. dms. same basis lb. 2.65 - —
Methoxychlor, 50% wettable powder, dealers dms. cs. frt. alld lb. .61 .64
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 lb. .20½- —
l.c.l., same basis lb. .21 - —
hydrogenated, non-ret. dms., c.l., dlvd., zone 1 lb. .21 - —
l.c.l., same basis lb. .21¼- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., l.c.l., E. of Miss., frt. alld gal. .62½- —
syn., dms., c.l., frt. alld. E gal. .57 - —
l.c.l., frt. alld. E gal. .63 - —
tanks, frt. alld E gal. .45 - —

Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.

Acrylate, dms., c.l., t.l., dlvd lb. .43½- —
l.t.l., dlvd lb. .44½- —
tanks, dlvd lb. .41¾- —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd, E lb. .15 - —
l.c.l., dlvd. E lb. .16 - —
tanks, dlvd. E lb. .13 - —
Ketone, dms., works lb. 1.05 - —
Anthranilate, cns lb. 2.50 - 2.65
Benzoate, cns., dms lb. .53 - .65
Bromide jobbers, cyls., various sizes, frt. alld. E lb. .47 - .61
Cellulose, special, vis (1,500-4,000 cps.) 50-lb. bgs., c.l., works lb. .78 - —
2,000-lb. lots and more, same basis lb. .65 - —
smaller lots, frt. alld. on 100 lbs lb. .89 - 1.00
standard vis., (15-400 cps.), 50-lb., c.l., alld lb. .66 - —
2,000-lb. lots and more, same basis lb. .72 - —
smaller lots, frt. alld. on 100 lbs lb. .75 - .85
Chloride, indust., cyls., frt. equald. lb. .21 - —
tanks, multi-unit, same basis lb. .15 - —
single unit, same basis lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .42 - —
other consumers or service men, cyls., dlvd. lb. .53 - —
Mercaptobenzothiazole, bgs., fib. cms. ton lots works frt. alld lb. .38 —
less ton lots, same basis lb. .40 —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld lb. .48 - —
less ton lots, same basis lb. .50 —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb. 4.98 —
gran. or powd., dms., 50-lb. lots or more lb. 4.78 —
Cyanide, NF VIII, powd., fib. dms. lb. 6.84 - —
Iodide, red, NF, fib. dms lb 7.72 - —
Oxide, red, NF, powd., fib dms lb. 5.97 6.01
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms lb. 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF lb. 7.72 - —
Mercury, ammoniated (see White precipitate USP).
Metal, 76 lb. per flask, net flask 322.00 -324.00
Mesityl oxide, dms., c.l., dlvd lb. .1350- —
l.c.l. dlvd. lb. .1450- —
tanks, dlvd. lb. .1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Choloraniline)
Metanitroaniline (see m-Nitroaniline)
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine)
Metalolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld gal. .70 - —

Prices on natural methanol W of Miss. 3c. higher.

syn., Zone 1, dms., c.l., dlvd., or truckload min., frt. alld. gal. .42 - —
l.c.l., same basis gal. .48 - —
tankwagon, 2-4,000 gals., dlvd., Metropolitan areas gal. .30 - —
tanks, dlvd., or 4,000 gal. min., frt. alld gal. .27 - —
4,000 gal. min., frt. equald. with Camden, N. J gal. .25½- —
Zone 2, dms., c.l., or truckload min., frt. alld. or dlvd gal. .47 - —
l.c.l., same basis gal. .53 - —
tankwagon, 2,-4,000 gals. min. dlvd. Metropolitan areas, gal. .35 - —
Zone 2, tanks, 4,000 gal., min., frt. alld. or dlvd gal. .32 - —

Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

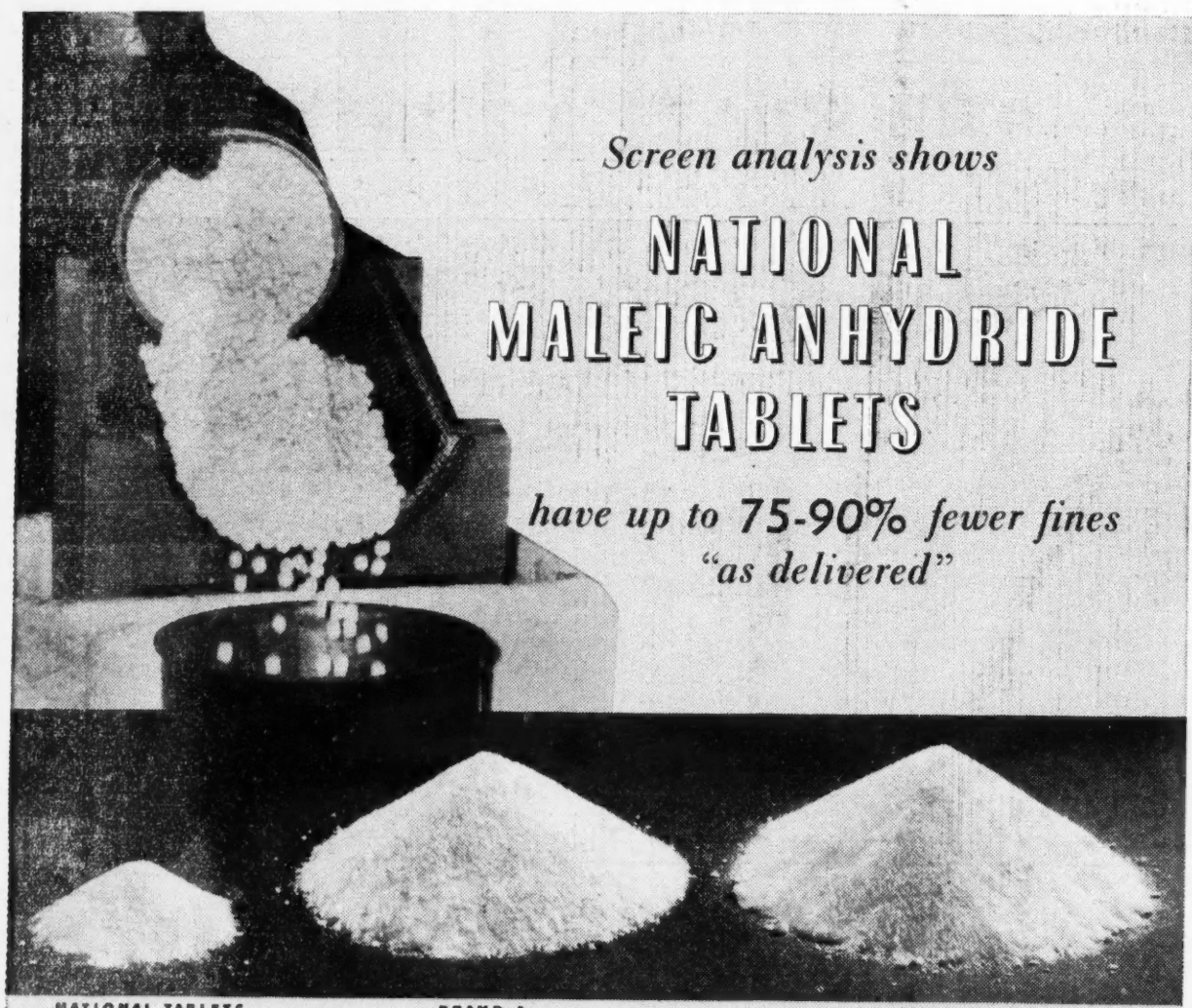
Methenamine (see Hexamethylenetetramine).
dl-Methionine, fib. dms., frt. alld., 50-lb. or more lb. 3.50 - —
feed grade, 98% fib. dms. same basis lb. 2.65 - —
Methoxychlor, 50% wettable powder, dealers dms. cs. frt. alld lb. .61 .64
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 lb. .20½- —
l.c.l., same basis lb. .21 - —
hydrogenated, non-ret. dms., c.l., dlvd., zone 1 lb. .21 - —
l.c.l., same basis lb. .21¼- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., l.c.l., E. of Miss., frt. alld gal. .62½- —
syn., dms., c.l., frt. alld. E gal. .57 - —
l.c.l., frt. alld. E gal. .63 - —
tanks, frt. alld E gal. .45 - —

Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.

Acrylate, dms., c.l., t.l., dlvd lb. .43½- —
l.t.l., dlvd lb. .44½- —
tanks, dlvd lb. .41¾- —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd, E lb. .15 - —
l.c.l., dlvd. E lb. .16 - —
tanks, dlvd. E lb. .13 - —
Ketone, dms., works lb. 1.05 - —
Anthranilate, cns lb. 2.50 - 2.65
Benzoate, cns., dms lb. .53 - .65
Bromide jobbers, cyls., various sizes, frt. alld. E lb. .47 - .61
Cellulose, special, vis (1,500-4,000 cps.) 50-lb. bgs., c.l., works lb. .78 - —
2,000-lb. lots and more, same basis lb. .65 - —
smaller lots, frt. alld. on 100 lbs lb. .89 - 1.00
standard vis., (15-400 cps.), 50-lb., c.l., alld lb. .66 - —
2,000-lb. lots and more, same basis lb. .72 - —
smaller lots, frt. alld. on 100 lbs lb. .75 - .85
Chloride, indust., cyls., frt. equald. lb. .21 - —
tanks, multi-unit, same basis lb. .15 - —
single unit, same basis lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .42 - —
other consumers or service men, cyls., dlvd. lb. .53 - —



Common sense says that lower surface area to weight and a smooth "cornerless contour" *should* mean less degradation in transit and in handling. Careful screen analysis after a 1,000 mile truck haul proves beyond question that National Maleic Anhydride Tablets *do* have up to 75-90% fewer fines "as delivered".

But —

"Less fines" is only one good reason to specify National Maleic Anhydride Tablets. Quick dissolving, uniformity and high quality are equally important to your Process Control.

So for prompt delivery of premium-quality material from nearby Moundsville, W. Va. specify National Maleic Anhydride Tablets on your next order. Samples, technical data and prices cheerfully on request!

NATIONAL ANILINE DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.
Boston Providence Philadelphia Chicago San Francisco
Portland, Ore., Greensboro Charlotte Richmond Atlanta
Los Angeles Columbus, Ga. New Orleans Chattanooga Toronto

Methyl cinnamate, cns ..... lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works, lb. .35½- —
t.c.l., works ..... lb. .36 - —
tanks, works ..... lb. .34 - —
Ethyl ketone, dms., c.l., dlvd. lb. .13 - —
t.c.l., dlvd ..... lb. .14 - —
tanks, dlvd ..... lb. .11 - —
Formate, refd., dms ..... lb. .35 - .40
tech., non-ref dms., any quantity, works. lb. .10 - —
Heptin carbonate, bots. ..... lb. 33.00 -42.00
p Hydroxybenzoate, tib. dms lb. 1.80 2.00
Ionone, standard, cns., dms lb. 7.50 - —
Isobutyl carbinol, dms., c.l., dlvd. lb. .15 - —
t.c.l., dlvd ..... lb. .16 - —
tanks, dlvd ..... lb. .13 - —
Ketone, dms., c.l., dlvd ..... lb. .15 - —
t.c.l., dlvd. ..... lb. .16 - —
tanks, dlvd. ..... lb. .13 - —
Methacrylate, dms., c.l., t.l., frt. equald with Belle, W. Va. lb. .36½- —
smaller lots, same basis lb. .37 - —
tanks, same basis ..... lb. .35 - —
Naphthyl ketone, cryst., cns lb. 3.60 4.30
Paranydroxybenzoate (see Methyl p-Hydroxybenzoate)
Roseaniline chloride, NF, fib. dms. lb. 5.44 - —
Salicylate, USP, cns., 50-lb. lots lb. .58 - —
Testosterone, USP, 100-gram bots. gram. .79 - —
2-Methyl-5-ethyl pyridine dms., c.l., works lb. .47½- —
t.c.l., works ..... lb. .46 - —
tanks, works ..... lb. .46 - —
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 3.25 - 3.60
smaller lots same basis lb 3.40 3 60
Chloride, indust., dms., c.l., dlvd. E. lb. .13½- —
Methylionone, A, cns ..... lb. 6.55 - 8.80
D, cns ..... lb. 7.50 - 9.55
prime, cns ..... lb. 4.55 - 6 40
standard, dms., cns ..... lb. 3.80 - 4.65
b-Methylnaphthalene, 32°C. m.p., dms., works lb. .90 - —
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone (see 1-Phenl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works lb. .04¼- —
roofing, 20 to 80 mesh, works lb. .03 - 04
wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .06¼- —
t.c.l. ex-whse or frt. alld. E lb. .07 - —
paint, or lacq. bgs., c.l., works, frt. alld lb. .07¾- —
t.c.l. ex whse or frt. alld. E lb. .08½- —
rubber, bgs. c.l., works, frt. alld. E lb. .07½- —
t.c.l., ex-whse or frt. alld. E lb. .08½- —
wallpaper, bgs. c.l., works, frt. alld., E lb. .07¾- —
t.c.l. ex-whse. or frt. alld. E lb. .08¼- —
white, extra, fine, bgs., c.l., works, frt. alld. E lb. .07¾- —
t.c.l. ex whse or frt. alld. E lb. .08½ —
Mica, wet-grd. W. of Miss. R. ½c. higher. W. of Rockies, 1c. higher
Milk powder, non-fat, roller, bgs., c.l. lb. .12 - .1535
spray, bgs., c.l. ..... lb. .14 - 1610
whole, roller, bgs., c.l. ..... lb. No prices.
spray, bgs. c.l. ..... lb. .27 - 31
Sugar (see Lactose).
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans gal. .09¾- .10
New York ..... gal. .11½- —
Molybdenum (metal), powd., 80 or 200 mesh, cns., works, kilo. 8.80 - —
Trioxide, pure, kgs., works lb. 1.05 - —
tech., kgs., works, basis Mo. content lb. 1.25 - —
Monobutylamine, dms., c.l., E. of Rockies lb. .55 - —
t.c.l., same basis ..... lb. .56 - —
tanks, same basis ..... lb. .53 - —
Monochlorobenzene dms., c.l., frt. alld or dlvd. E lb. .11½- —
t.c.l., same basis ..... lb. .12½- —
tanks, same basis ..... lb. .10 - —
Monochlorobenzene prices in the West, 1¾c higher
Monoethanolamine, dms., c.l., dlvd. E lb. .26¾- —
t.c.l., same basis ..... lb. .27¾- —
tanks, same basis ..... lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd E lb. .33 - —
t.c.l. dlvd. E ..... lb. .34 - —
tanks, dlvd. E ..... lb. .31 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylortnotoluidin (see N-Ethyl-o-toluidine).
Monoisopropylamine dms. c.l., dlvd. lb. .30½- —
t.c.l., same basis ..... lb. .31¼- —
tanks, same basis ..... lb. .28½- —
Monomethylamine, 30-35% soln., dms., c.l., frt. equald., 100% basis, lb. .40 - —
t.c.l., frt. equald, 100% basis, lb. .40½- —
tanks, frt. equald, 100% basis, lb. .31 - —
40% soln., dms., c.l., frt. equald, 100% basis lb. .37 - —
t.c.l., frt. equald, 100% basis lb. .37½- —
tanks, frt. equald., 100% basis, lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic)
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m-cresol).
Morphine cns ..... oz 12.40 -12.60
Acetate anhyd cns ..... oz 9.95 -10.00
Hydrobromide cns ..... oz 9.90 9.95
Hydrochloride NF, cns ..... oz 9.90 9.95
Sulfate, USP cns ..... oz. 9.90 -10.05
Morpholine dms., c.l., dlvd. E lb. .54¾ —
t.c.l. dlvd E ..... lb. .55¾- —
tanks, dlvd E ..... lb. .52¾- —
Musk, nat., Tonquin grains, bots. oz. No stocks.
syn., ambrette, 100-lb. lots, fib. dms. lb. 5.15 - —
25-lb lots, cns ..... lb. 5.20 - —
5-lb. lots, cns ..... lb. 5.30 - —
ketone, 100-lb. lots, fib. dms. lb. 5.30 - —
25-lb lots cns ..... lb 5.35 - —
5-lb. lots, cns ..... lb. 5.45 - —
xylol, 100-lb. lots, fib. dms lb. 1.40 - —
25-lb lots, cns ..... lb. 1.45 - —
5 lb lots, cns ..... lb. 1.50 - —
Mustard seed, Danish, yellow, bgs lb. .12 - .12½
Dutch, yellow, bgs ..... lb. No prices.
English, yellow, bgs ..... lb. .12½- .14
Montana, oriental, bgs. .... lb. No prices.
yellow, bgs. ..... lb. .12½- .13

Myrobalans, J-1, assorted, bgs., ex dock ton. 58.00 -59.00
crushed, bgs., ex dock .... ton. 69.50 -70.00
Bombay, bgs., ex dock .... ton. 54.00 -55.00
extract, Indian, solid, 55% tannin, bgs., ex dock, plus duty lb. .07¼- —

N

Naphtha, painters (see Petroleum naphtha V M & P)
Solvent (see S).
Naphthalene, crude, dom., 74° tanks, frt. equald lb. .05½- —
78°, bgs., c.l., same basis lb. .06¾- —
t.c.l., same basis lb. .07 - —
tanks, same basis lb. .06¼- —
imp., 78°, large lots lb. .06 - —
refd., dom., indust., chipped or crushed, bgs., frt. equald, lb. .11½- —
flake, bgs., same basis lb. .12½- —
tanks, same basis lb. .10¾- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis, lb. .13¾ —
cs., 50 lbs., c.l. same basis lb. .14 - —
1-lb pkgs c.l. same basis lb. .16¼- —
a-Naphthol, bbls., frt alld lb 1.00 - —
b-Naphthol, resub., dms., works lb. .78½- —
tech., bbls., c.l., works lb. .32½- —
t.c.l., works lb .34½- —
Benzoate, fib. dms., works lb 3.00 - —
custom contract, works lo 1.65 - —
Salicylate, dms lb 5.00 - —
Sulfate, cns lb 35.00 - —
a-Naphthylamine, bbls. frt alld lb 50 - —
b-Naphthylamine, tech., flake, bbls., works lb. 1.60 - —

Methyl Cinnamate—Nitrogenous Process Sewage Sludge

Neocinchophen, USP, dms., frt. adjusted lb 7.00 8.00
Neomycin, fib dms., 100-kilo lots, basis, activity gram. .60 - —
1-kilo lots, basis, activity gram. 1.20 - —
Nerolin, cns ..... lb 2.55 2.65
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide)
Nickel acetate, bbls., dlvd .... lb. .77 - .90½
Carbonate, bbls., dlvd ..... lb. .73¾- 81¾
Chloride, bbls., dlvd ..... lb. .38½- .46½
Formate, bbls., ton lots, frt. alld. lb. .68 - .69
Metal, electro cathodes, cs., works, lb. .64½- —
Nitrate, bbls., works ..... lb. .37 - .38
Oxide, black, bbls ..... lb. .76 - —
green, bbls. ..... lb. .76 - —
Sulfate, bgs., c.l., dlvd ..... lb. .30¼- —
t.c.l., dlvd ..... lb. .31¼- .33¾
Nicotinamide, USP, dms., frt adjusted kilo. 12.00 -12.30
Hydrochloride, dms., frt. adjusted, kilo. 11.50 -11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt alld lb 1.20 —
manufacturers, 500-lb. dms., frt. alld lb 1.03 —
Niger seed, bgs ..... lb. .11½- .12
Nikethamide, cbys ..... lb. 5.75 6.00
m-Nitroaniline, dms., frt. alld lb 1.05 —
o-Nitroaniline, flaked, dms .... lb. .54 - .57
powd., dms ..... lb. .60 - —
p-Nitroaniline, dms., t.c.l., frt. alld. lb. .51½- —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .12 - —
t.c.l. frt alld ..... lb. .13 - —
tanks, frt alld ..... lb. .11 - —

o-Nitrobiphenyl, tech., dms., c.l., works lb. .14½- —
t.c.l., works ..... lb. .15 - —
tanks, works ..... lb. .13 - —
Nitrocellulose, ester-soluble, 30-35 cps. ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .34 - —
t.c.l., same basis lb. .35 .37
18-25 cps., bbls., c.l., same basis lb. .36 - —
t.c.l., same basis lb. .37 .39
250-400, 600-1,000 secs., bbls., c.l., same basis lb. .39 - —
t.c.l., same basis lb. .40 - .42
spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., c.l., same basis lb. .41 - —
t.c.l. same basis lb. .42 .44
5-6c ps., 40-60 secs., bbls., c.l., same basis lb. .40 - —
t.c.l., same basis lb. 41 - 43
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable
o-Nitrochlorobenzene, dms., c.l lb. .20 - —
t.c.l., same basis ..... lb. .21 - —
tanks, same basis ..... lb. .18 - —
p-Nitrochlorobenzene, dms ..... lb. .26 .27
2-Nitro-4-chlorophenol, dms ..... lb. .75 - —
Nitroethane, dms., dlvd E of Rockies lb. .25 - —
Nitrogen solution, tanks, frt equald, 37-40.8% N, 100% basis ton. 130.00 - —
Nitrogenous process tankage, bulk, works unit-ton. 5.00 - —
Sewage sludge, bulk, works unit-ton. 2.95 + .50

RELIABLE SOURCE

magnesia compounds

From pharmaceuticals to fertilizers and building board to rubber, Magnesia compounds serve industry as fillers, extenders, adsorptive and conditioning agents, and many other uses. Michigan's brine wells are a superlative source of these useful compounds. Michigan Chemical Corporation now in its 20th year producing quality chemicals from these wells, can be depended upon to supply you with your magnesia requirements.

TYPICAL ANALYSES OF MICHIGAN MAGNESIA COMPOUNDS

	No. 1 Calcined Magnesite	No. 5 Calcined Magnesite	No. 15 Calcined Magnesite	No. 30C Light Calcined Magnesia	No. 40 Extra Lt. Calcined Magnesia	Basic Magnesium Carbonate	(NF Grade) Magnesium Hydroxide	(Tech. Grade) Magnesium Hydroxide
Bulk density, weight per cubic foot	60 lb.	28 lb.	24 lb.	8½ lb.	5 lb.	5.5 lb.	15 to 25 lb.	app. 20 lb.
Ignition loss:	0.5%	1.5%	2.5%	1.9%	3.0%	56.5%	PASSES N. F. IX SPECIFICATIONS	31.4%
Chloride (as Cl):	0.08	0.1	0.2	0.25	0.25	0.2		
Analysis, ignited basis:						NOT IGNITED		NOT IGNITED
SiO_2	0.3	0.3	0.3	0.3	0.3	0.15		0.20
Fe_2O_3	0.2	0.2	0.2	0.2	0.2	0.08		0.15
AL_2O_3	0.2	0.2	0.2	0.2	0.2	0.08		0.15
CaO	1.0	1.0	1.0	1.0	1.0	0.7		0.7
Mn				0.01	0.01	0.00		
Free Moisture						1.5		2.0
Screen test: Through 200 mesh		95%		99.9%	99.9%	99.99%	99.0%	99.0%
Screen test: Through 325 mesh			99.5%	99.5%	99.5%	99.5%		

We will be glad to provide further information on these Magnesia compounds, or to send you a Michigan Chemical Catalog containing technical data and other information on Michigan Chemical products.

MICHIGAN CHEMICAL CORPORATION Saint Louis, Michigan

EASTERN SALES OFFICE:
230 Park Avenue
New York 17, New York

BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS

Nitromethane—Oil, Pennyroyal

Nitromethane, dms., l.c.l., dlvd E. of Rockies lb. .25 - —
a-Nitronaphthalene, bbls, frt. alld. lb. .41 - —
Nitropropane 1, dms., dlvd. E. of Rockies lb. .23¼- —
2, dms., dlvd. E. of Rockies lb. .25 - —
l.c.l., works lb. .24¾- —
tanks, works lb. .22¾- —
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., works, frt. equald lb. .50 - —
o-Nitrotoluene, dms. c.l., frt. alld lb. .10 - —
l.c.l., frt. alld lb. .11 - —
tanks, frt. alld lb. .09 - —
p-Nitrotoluene, dms., works lb. .33 - .36
m-Nitro-p-toluidine, dms lb. 1.59 - —
Nitrous ether, conc., bots 100-lb. lots lb. 1.28 - 1.35
Nonyl phenol, dms., c.l., frt. alld. lb. .26 - —
l.c.l., frt. alld lb. .27 - —
tanks, frt. alld lb. .24 - —
Nutgalls, Aleppo, bgs lb. .36 - .38
Chinese, bgs lb. .45 Nom.
Nutmeg, East Indian, bgs. lb. .42½- .43
West Indian, bgs lb. .33 - .33½
Nux vomica, bls lb .10 - .12
powd., bbls., bxs lb. .15 - .17

O

Octane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .15¾- —
Borger, Tex gal. .15¾- —
1-Octanol, tech., dms., c.l., dlvd. lb. .35 - —
l.c.l., dlvd lb. .37 - —
tanks dlvd lb. .32½- —
Octyl phenol, bgs., c.l., works lb. .23¼- —
l.c.l., works lb. .23¾- —
tanks, works lb. .22½- —
Drum prices for octyl phenol are 1c. higher.

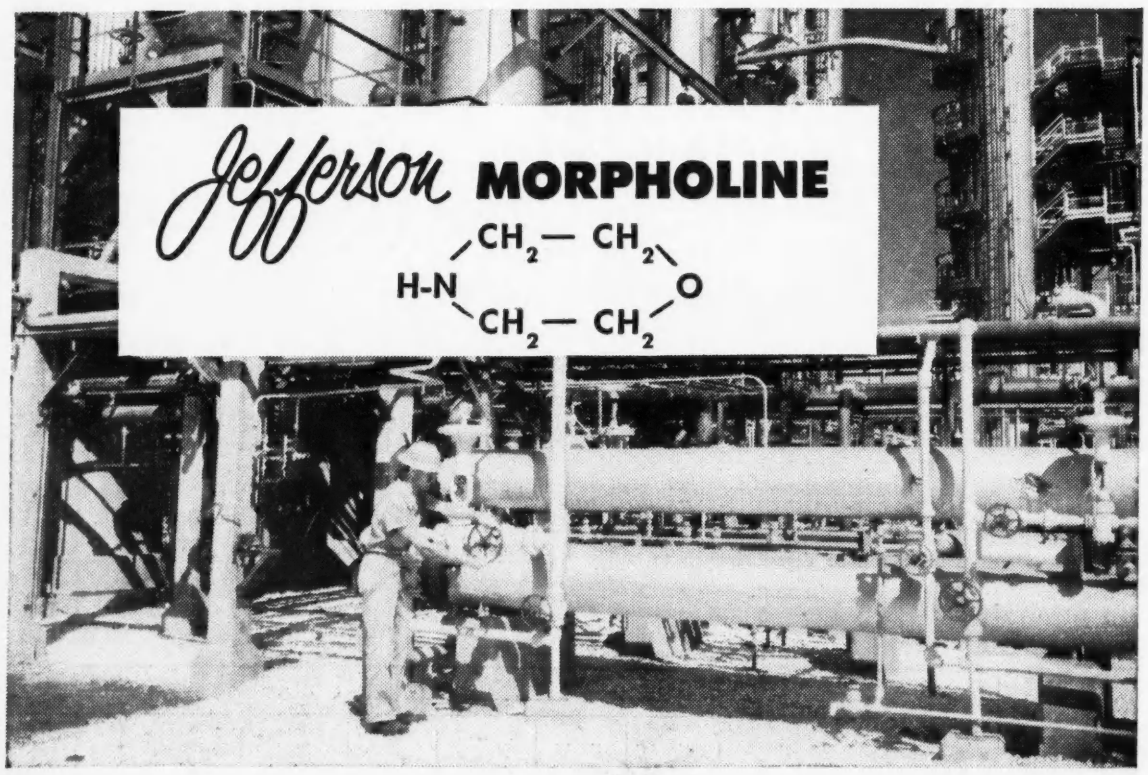
(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies, siberica, cns lb. 2.80 - 3.25
Almond, artif., bitter (see Benzaldehyde), nat., bitter, F.P.A., bots lb. 3.00 - 3.40
NF, bots lb. 3.25 - 3.75
sweet, USP, dms., cns lb. .55 - .70
Allspice (see Oil, pimento).
Amyris, dms. lb. 1.40 - 1.95
Angelica root, bots. lb.66.00 -100.00
seed, bots lb.56.00 -95.00
Aniline (see A).
Anise, USP, dms lb. 3.50 - 5.00
Apricot, kernel, USP, dms lb. .38 - .45
Avocado, cns. lb. 3.25 - —
Babassu, crude, tanks lb. No stocks
Bay, NF, Puerto Rican, 50-55%, cns lb. 1.75 - 2.00
55-60%, cns lb. 1.90 - 2.25
West Indian, 50-55%, cns., dms., lb. 1.85 - 2.25
Bergamot, nat., NF, Italian, cns. lb. 9.75 -12.00
Birchtar, crude, cns lb. 1.50 - 1.90
rectified, NF, cns lb. 2.00 - —
Bois de rose, Brazil, dms lb. 4.50 - 6.00
Mexican (see Oil, lignaloe wood).
Oil, bone, dms., works lb. .65 - .70
Cajeput, native, cns lb. 1.75 - 2.10
redist., USP, cns lb. 2.25 - 3.00
Calamus, bots lb.12.00 -20.00
Camphor, sassafrassy, dms lb. .40 - .60
white, dms. lb. .35 - .50
Cananga, native, cns lb. 7.85 -10.25
rectified, cns. lb.12.50 -14.75
Caraway, NF, cns lb. 3.75 - 5.00
Capsicum (see Capsicum oleoresin).
Cardamom, NF, bots lb.36.00 -50.00
Cassia, USP (see Oil, cinnamon, USP).
Castor, blown, dms., c.l. lb. .2000- —
l.c.l. lb. .2050- —
dehydrated, bodied, dms., c.l lb. .2210- —
l.c.l. lb. .2260- —
tanks lb. NP - —
unbodied, dms., c.l. lb. .2060- —
l.c.l. lb. .2110- —
tanks lb. NP - —
hydrogenated, bgs., l.c.l lb. .2350- .2400
Castor, No. 3, tech., dms., c.l lb. .1650- —
l.c.l. lb. .1700- —
tanks lb. NP - —
No. 1, Brazilian, tanks lb. .13¾- —
sulfonated, 50%, dms., l.c.l lb. .13½- .14
75%, dms., l.c.l lb. .17 - .17½
USP, dms., c.l. lb. .1750- —
l.c.l. lb. .1800- —
tanks lb. N. P. —
refd. and deodorized, dms., lb. .18¾- —
c.l. lb. .1900- —
l.c.l. lb. .1950- —
tanks lb. N. P. —
Cedarleaf, cns., dms lb. 2.90 - 3.50
Cedarwood, cns., dms lb. 1.00 - 1.65
Celery seed, bots lb.12.50 -20.00
Chamomile, blue, Hungarian bots. lb.160.00 -250.00
Chinawood (see Oil, tung).
Cinnamon bark, bots lb.25.00 -65.00
leaf, cns. lb. 1.75 - 2.25
USP, cns., dms., (Cassia) lb. No stocks.
Oil, citronella, Ceylon, cns., dms lb. 1.20 - 1.75
Java, true, dms lb. 1.85 - 2.00
Java-type, cns. lb. 1.85 - 2.10
Clove, bud, USP, cns., dms lb. 3.25 - 4.20
leaf, unrectified, dms lb. 1.55 - 2.20
Coconut, crude, tanks, N. Y. lb. .13⅞- —
Pac. Coast lb. .12⅜- —
refd., Cochin type, tax incl. ret. dms., l.c.l. lb. .21¾- —
deodorized, tax incl. non ret dms., c.l. lb. .23½- —
Cod, Newfoundland, dms lb. .10½- —
Codliver, USP, dms gal. 1.50 - 1.60
Copaiba, cns lb. 1.50 - 2.50
Coriander, USP, bots lb.13.50 -18.00
Corn, crude, tanks, works lb. .13½- —
foots (soapstock), acid 95%, tanks, N. Y. lb. .06⅛- —
refd., salad, dms lb. .18½- .18¾
tanks lb. .17 - —
Costus, bots. lb. 8.00 - —
Cottonseed, crude, tanks, South-East lb. .13⅛- —
Valley lb. .12⅝- .13
Texas lb. .12⅝ Nom.
foots (soapstock), acid 95%, tanks, N. Y lb. .06 - —
raw, 50%, tanks, same basis. lb. .02¾- —
refd., salad, dms lb. .18¼- .18½
tanks lb. .16¾- —
Creosote (see Creosote, coaltar).
Crude (see Petroleum, crude).
Cubeb, cns lb. 4.50 - 6.00
Cumin, bots., cns lb. 4.15 - 5.75
Cypress, bots. lb. 5.30 - —
Degras (see D).
Dillseed, bots. lb. 2.80 - 4.25
Dillweed, dom., bots., dms lb. 3.75 - 5.30
Dip (see D)
Erigeron, cns. lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, dms lb. .67 - 1.00
80-90%, dms. lb. .85 - 1.25
Fennel, sweet, USP, cns lb. 2.30 - 3.25
Fir, Canada, cns lb. 2.35 - 3.00
Fish, refd., alkali, dms lb. .1400- .1450
kettle-bodied, dms lb. .1630- .1680
light-pressed, dms lb. .1250- .1300
tanks lb. .1100- —
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms., 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gram, dms., 1,000,000 units .10½- .11
100,000 A units per gram., dms. 1,000,000 units. .12 - .14
200,000 A units per gram., dms. 1,000,000 units. .12 - .14
300,000 A units per gram, dms. 1,000,000 units. .12 - .14½
400,000 A units per gram, dms., 1,000,000 units . .12 - .14½
500,000 A units per gram, dms. 1,000,000 units. .12 - .14½

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1000.

Fusel (see F).
Garlic, pure, bots. oz. 6.50 - 9.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns lb.11.75 -14.50
Bourbon, cns. lb.11.25 -14.50
Turkish (see Oil palmarosa)
Ginger, dist., bots lb.15.00 -18.00
Grapefruit, dms. lb. 2.50 - 3.25
Grease, No. 1, dms lb. .14½- .15
extra, winter, strained, dms lb. .17½- .18
prime, burning, dms lb. .19 - .19½
Guaiacwood, cns lb. 1.40 - 1.90
Hemlock, cns. lb. 2.10 - 2.50
Juniper berry, NF, VIII, bots lb. 2.75 - 4.00
twice rectified, bots lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns lb. .42 - .65
Lard (see Oil, grease).
Laurel leaf, dms., cns. lb 9.75 -12.50
Lavandin, dms., cns lb. 2.50 - 4.85
Lavender, flower, USP, French, 30-32% ester, cns lb. 3.55 - 4.60
38-40% ester, cns lb. 9.50 -13.20
40-42% ester, cns lb.10.00 -16.50
Spike, Spanish, cns lb. 1.85 - 2.30
Lemon, USP, Calif., cns., dms lb. 4.50 - 6.15
Messina, cns. lb. 4.85 - 9.80
terpeneless, bots lb.82.00 -85.00
Lemongrass, cns., dms lb. 2.50 - 3.25
Lignaloe wood, Mex., cns lb. 3.70 - 4.60
Lime, dist., Mexican, cns lb. 3.30 - 4.75
West Indian, cs lb. 3.30 - 4.75
expressed, West Indian, cns lb. 7.00 - 8.00
terpeneless, bots lb.29.50 -100.00
Linseed, raw, dms., c.l., N. Y. lb. .1325- —
l.c.l. lb. .1375- .1620
tanks, f.o.b. Minneapolis lb. .1260- —
New York lb. .1385- —
tankwagon, New York lb. .1415- —
Boiled linseed oil, .006c. per lb. higher.
Mace, dist., cons., dms lb. 2.75 - 3.60
Mandarin (see Oil, tangerine).
Menhaden, crude, tanks, works, Atlantic Coast lb. .09 Nom.
Gulf and Atlantic ports, f.a.s. lb. .09¼- —
Mineral, white (see Oil, white mineral)
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms. lb. .18½ Nom.
synthetic, cns., dms lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms lb. .33 - .34
20° cold test, dms. lb. .32 - .33
30° cold test, dms. lb. .30 - .31
Neroli, NF, French, bots lb.85.00 -275.00
Spanish, bots lb.35.00 -85.00
Nutmeg, USP, dist., East Indian, cns., dms lb. 2.75 - 3.35
West Indian, cns., dms lb. 2.60 - 2.85
Ocotea, cymbarum, dms lb. 1.10 - 1.50
Oiticica, liquid, dms lb. .16 - .16½
tanks lb. .14½- —
Oleo, extra, dms lb. .15½- .16
Olibanum, bots. lb. 5.50 - 7.65
extra fine, bots lb. 8.00 - —
Olive, Spanish, edible, dms., duty paid gal. 2.35 - 2.45
Tunisian, same basis gal. 2.25 - 2.30
Orange, sweet, dist., cns lb. .50 - .80
expressed, USP, Brazilian, cns., dms lb. No stocks.
Calif., cns., dms lb. .55 - 1.25
Florida, cns., dms lb. .45 - 1.25
Messina, cns lb. 3.85 - 5.85
West Indian, cns., dms lb. 2.50 - 3.65
sesquiterpeneless, bots lb.65.00 -120.00
Origanum, Spanish, cns lb. 1.75 - 2.85
Palm, clarif., dms lb. .13 - .14
kernel, denat., tanks lb. .13½ Nom.
Palmarosa, cns. lb. 8.00 - 9.50
Paraffin, pale, 100-110 vts., at 100°F. tanks, East Coast refy. gal. .14 - —
Patchouli, dms lb. 8.00 - 9.50
Peach kernel, USP (see Oil apricot kernel).
Peanut, crude, tanks, f.o.b. mills. lb. .18¼- —
refd., dms lb. .23 - .23½
tanks lb. .21½- —
Pennyroyal, USP, imported, cns lb. 1.90 - 2.50

Available in commercial quantities...



Jefferson Morpholine, a colorless, mobile, hygroscopic liquid with a characteristic amine-like odor, offers a wide range of application possibilities:

Surface active agents	Dyes
Rubber curing agents	Agricultural chemicals
Corrosion inhibitors	Separating agents
Antioxidants	Bactericides
Catalysts	Pharmaceutical chemicals
Plasticizers	Textile lubricants

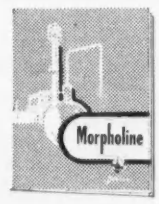
This versatile compound is produced with unremitting care at Jefferson's modern plant at Port Neches, Texas—and is backed by the company's extensive research facilities at Austin, Texas.

For your preliminary investigations—on which our Technical Service staff will be happy to work with you—samples of Jefferson Morpholine are yours for the asking.

SALES SPECIFICATIONS

Color, Pt-Co scale	15 max.
Boiling range, C.	
IBP	125.0 min.
DP	132.0 max.
Purity, wt. %	98.0 min.
Specific gravity, 20 20C.	0.999-1.004
Water miscibility	
10cc in 90cc water	No turbidity
Suspended matter	Substantially free

In the meantime, you'll find complete technical information in this new 48-page bulletin. Write for your copy today!



Jefferson CHEMICAL COMPANY, INC.
260 MADISON AVENUE, NEW YORK 16, N. Y.

Branch Sales Offices: Chicago, Houston, Charlotte
West Coast Sales Agent: Nelson A. Howard, Jr., Los Angeles
Plant: Port Neches, Texas
Other Stock Points: Chicago, Houston, Charlotte, and Tenafly, New Jersey

Ethylene Oxide,
Glycols, Dichloride
Ethanolamines
Nonyl Phenol
Morpholine
Ethylene Carbonate
Propylene Carbonate
Polyethylene Glycols
Glycol Ethers

Oil, peppermint, nat., dms. ..... lb. 7.75 - 8.90
redist., USP, dms. ..... lb. 8.10 - 9.50
Persic, USP (see Oil, apricot kernel).
Petitgrain, South American, cns., dms. lb. 3.80 - 5.30
Pimento, berry, NF, dms. ..... lb. 4.20 - 8.00
leaf, cns. ..... lb. 2.55 - 3.10
Pine, dest-dist., dms., l.c.l., works. lb. .11¼- —
ex-whse. ..... lb. .1355- —
steam dist., dms., ex whse., N.Y.C. lb. .163 - —
Pineneedle, Siberian (see Oil, abies siberica).
Rapeseed, tankcars ..... lb. .17 - —
Red (see Acid, oleic).
Rice bran., clarif., dms., l.c.l. lb. .17 - —
tanks, dlvd, E. ..... lb. .15 - —
Rose, nat., Bulgarian, bots. ..... oz. 43.50 -62.25
Rosemary, Spanish, USP, cns., dms. lb. .60 - 1.00
tech., cns., dms. ..... lb. .50 - .70
Rue, bots. ..... lb. 2.00 - 2.50
Safflower, dms., c.l., Atl. coast lb. .1910- —
tanks, same basis ..... lb. .1760- —
Sage, clary bots ..... lb. 20.00 -25.00
Dalmatian, cns. ..... lb. 4.90 - 7.20
Spanish, cns. ..... lb. 1.15 - 1.40
Sandalwood, NF, cns ..... lb. 12.00 -14.50
Sardine, crude, tanks, Pac. coast. lb. .08½ Nom.
Sassafras, artif., dms ..... lb. 1.00 - 1.40
nat., Brazilian (see Oil ocotea cymbarum).
dom., USP, cns., dms. ..... lb. 1.75 - 2.20
Savin, cns. ..... lb. 2.75 - —
Savory, cns. ..... lb. 4.25 - —
Sesame, refd., dms ..... lb. .36 - .37
Shingle stain, tar distillate, dms., c.l., works lb. .33 - —
l.c.l., works ..... lb. .44 - —
tanks, works ..... lb. .23 - —
Snakeroot, Canada, cns ..... lb. 28.50 -31.00
Soybean, crude, tanks, Decatur lb. .12¼- —
foots (soapstock), acid 95%, tanks, N. Y. lb. .07 - —
raw, 50%, tanks, N. Y. ..... lb. .02⅞- —
refd., alkali, dms. ..... lb. .16½- .16½
tanks ..... lb. .14¾- —
clarified, dms. ..... lb. .15¾- .16¼
tanks ..... lb. .14¼- —
salad, dms. ..... lb. .16¾- .17
tanks ..... lb. .15¼- —
Spearmint, USP, dms ..... lb. 4.00 - 5.50
Sperm, bleached winter, 45° dms. lb. .1625- .1650
tankcars ..... lb. .1450- —
nat., winter, 45°, dms. ..... lb. .1525- .1550
tankcars ..... lb. .1350- —
Spruce, cns., dms ..... lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb. 4.25 - 9.50
Southern, cns ..... lb. 2.50 - 3.00
Tall, crude, dms., c.l., works. lb. .03¼- —
tanks, works ..... lb. .02¼- —
dist., dms., c.l., works ..... lb. .07¼- .07½
tanks, works ..... lb. .06 - —
refd., dms., c.l., works ..... lb. .06¼- —
l.c.l., works ..... lb. .06½- —
tanks, works ..... lb. .05 - —
Tallow, acidless, dms ..... lb. .12½- .13
Tangerine, Floridian, dms ..... lb. 2.00 - 2.80
Tansy, dms. ..... lb. 7.75 - 9.00
Tar Acid (see T's).
Pine, coml., dms., c.l., works lb. .528 - .538
l.c.l., works ..... lb. .601 - —
whse. ..... lb. .712 - —
tanks, works ..... lb. .427 - .438
rectified, NF, dms., incl. l.c.l., works, South lb. .77 - —
whse., N.Y.C. ..... lb. .87 - —
Theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms. ... lb. 1.70 - 3.75
white, cns. ..... lb. 1.95 - 4.00
Tech. white cns ..... lb. 40 1.85
Tung, dms., c.l., N. Y. ..... lb. .24¾- —
l.c.l., same basis ..... lb. .25½- .26
tanks, N. Y. ..... lb. .23¼- .23½
domestic mills ..... lb. .22¾- .23
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF cns., dms ..... lb. 39 - 45
Vetiver, Bourbon, cns ..... lb. 13.25 -17.00
Haitian, cns ..... lb. 11.50 -21.00
Java, cns. ..... lb. 22.50 -40.00
Wheat germ, 5-gal dms ..... gal. 10.00 -13.00
White mineral, tech., 50-65 vis., non-ret. dms., c.l., f.o.b. N. Y. gal. .51½- .54½
65-75 vis., non-ret., dms., c.l., same basis gal. 52½- .55
l.c.l., same basis gal. .57½- .58½
80-90 vis., non-ret., dms., c.l., same basis gal. .53½- .56½
l.c.l., same basis gal. .58½- .59½
125-135 vis., non-ret., dms., c.l., same basis gal. .59½- .62½
l.c.l., same basis gal. .64½- .65½
145-155 vis., non-ret., dms., c.l., same basis gal. .66 - .68½
l.c.l., same basis gal. .71 - .71½
175-185 vis., non-ret., dms., c.l., same basis gal. .69½- .73
l.c.l., same basis gal. .74½- .75
USP, 200-210 vis., non-ret., dms., c.l., same basis gal. .73½- .75
l.c.l., same basis gal. .77½- .78
345-355 vis., non-ret. dms., c.l., same basis gal. .77 - .80
l.c.l., same basis gal. .83 - .85
Wintergreen, USP, nat., Northern, cns. lb. 6.35 -10.30
Southern, cns ..... lb. 3.20 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, cns. ..... lb. 5.00 - 8.00
Wormwood, cns. ..... lb. 5.00 - 6.85
Ylang-ylang, Bourbon, bots. ... lb. 17.00 -30.00
extra, bots ..... lb. 28.00 -40.00
Madagascar, bots ..... lb. No stocks
Oleostearine, bbls ..... lb. .11½- .11¾
Opium, USP, cns ..... lb. 19.20 -19.45
gran., USP, cns ..... lb. 21.65 -21.80
powd., USP cns ..... lb. 21.65 -21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies lb. 1.56 - —
Chrome, CP., bbls., dlvd. N of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .31 - —
Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport), 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago.
Dinitroaniline toner ..... lb. 1.30 - —
Mineral, American, bbls, l.c.l., works lb. .2035- .2060
Molybdated, bbls ..... lb. .45 - —
o-Nitroaniline toner, kgs ..... lb. 1.15 - —
Orange peel, bitter, Haitian, bls lb. .14 - .16
sweet, bls ..... lb. .16 - .18
Orris root, Florentine, bls ..... lb. .45 - .50
powd., bbls., bxs ..... lb. .50 - .53
Verona, bls ..... lb. .35 - .40
powd., bbls., bxs ..... lb. .40 - .45
Orthoaminobiphenyl (see o-Aminobiphenyl).
Orthoanisidin (see o-Anisidine).
Orthochloroanilin (see o-Chloroaniline).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitrobiphenyl (see o-Nitrobiphenyl).
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidin (see o-Phenetidine).
Orthophenylphenol (see o-Phenylphenol).
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).
Orthotolidin (see o-Tolidine base).
Orthotoluidin (see o-Toluidine).
Osage orange, cryst., No. 1, bbls., l.c.l lb. .40 - —
extract, liq., No. 1, bbls., l.c.l lb. .19 - —
Ouabain, USP, bots ..... gram. 3.00 - 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works lb. 4.75 - 5.00
smaller lots, works ..... lb. 4.92 5.17

P

Pancreas substance, assay 1:75 bots., 5-lb. lots or more lb. 4.00 - —
Pancreatin, USP, bots ..... lb. 1.90 - 2.10
Papain, USP, African, bots ..... lb. 4.00 - 4.50
Ceylon ..... lb. 3.00 - 3.50
Papaverine, nat. or syn. hydrochloride, USP, cns., 25 oz. to 100 oz. lots oz. 5.00 - —
smaller lots ..... oz. 5.05 - 5.20
Sulfate, cns. ..... oz. 7.10 - 7.35
Paprika, Roumanian, bgs ..... lb. .31 - .33
Spanish, bgs. ..... lb. .36 - .38
Yugoslavian, bgs. ..... lb. .36 - —
Para-aminophenol (see p-Aminophenol).
Para-anisidin (see p-Anisidine).
Parachloroanilin (see p-Chloroaniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachloro-orthonitroanilin (see 4-Chloro-2-nitroaniline).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude scale white, 121°-123°F, ASTM, solid, c.l., refy lb. .0710- —
fully refd., 122°-124°F, ATSM, slabs loose, c.l., refy. lb. .0845- —
125°-127°F, ASTM, slabs loose, c.l., refy lb. .0845- —
130°-132°F., ASTM, slabs loose, c.l., refy lb. .0855- —
132°-134°, ASTM, slabs, loose, c.l., refy lb. .0855- —
135°-137 F., ASTM, slabs loose, c.l., refy. lb. .0855- —
Prices for paraffin in bags and cns., c.l. 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher.
AMP temperatures are an arbitrary 3° F. higher than ASTM.
Paraformaldehyde, 91% flake, bgs., c.l., frt. alld. lb. .0965- —
l.c.l., frt. alld ..... lb. .1165- .1265
powd., bgs., c.l., frt. alld lb. .15½- —
l.c.l., frt. alld ..... lb. .17 - —
USP X, fib. dms., c.l. ..... lb. .183 - —
1,000-lb. lots ..... lb. .193 - —
smaller lots ..... lb. .208 - —

Oil, Peppermint—Penicillin

Paraldehyde, tech., 98%, 55-gal. dms., c.l. works lb. .13½- —
l.c.l., works ..... lb. .14½- —
tanks, works ..... lb. .11½- —
Paranitroanilin (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrophenol (see p-Nitrophenol).
Paranitrotoluene (see p-Nitrotoluene).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion spray powder, 15% dealers, dms., works lb. .48 - .49
tech., dms., c.l., t.l., works ... lb. 1.3395- —
l.c.l., works ..... lb. 1.51 - —
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paratoluidine (see p-Toluidine).
Paris green, dealer, distributor, dms., c.l., works, frt alld. on 96 lbs or over lb. .36 - .40
l.c.l., same basis ..... lb. .37 - .53
Passion flower herb, bls ..... lb .20 - .21
Peanut meal, 45% oil process, bgs., mills ton. 80.00 Nom.
Pectin, citrous, NF, powd. bbls lb 2.05 - 2.06
tech., powd. bbls lb 1.50 - —
imported, Danish, ex whse .. lb. 1.28 - —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units. .05 - .06
Procaine, bulk ..... 1,000,000 units. .05 - .06
Sodium, sterile, bulk, 1,000,000 units. .05 - .06

How does the champion get to be champion?

By being better! Unmatched through the years is the *California flavor* that distinguishes Exchange Brand Oil of Lemon. That's why Exchange remains the overwhelming sales leader—in fact, the *4-to-1 favorite* over all other lemon oils combined!

So why skimp on quality...insist on Exchange quality and flavor that come *only* from genuine California lemons, grown and skillfully processed by Sunkist Growers.

Sunkist Growers
PRODUCTS DEPARTMENT • ONTARIO, CALIFORNIA

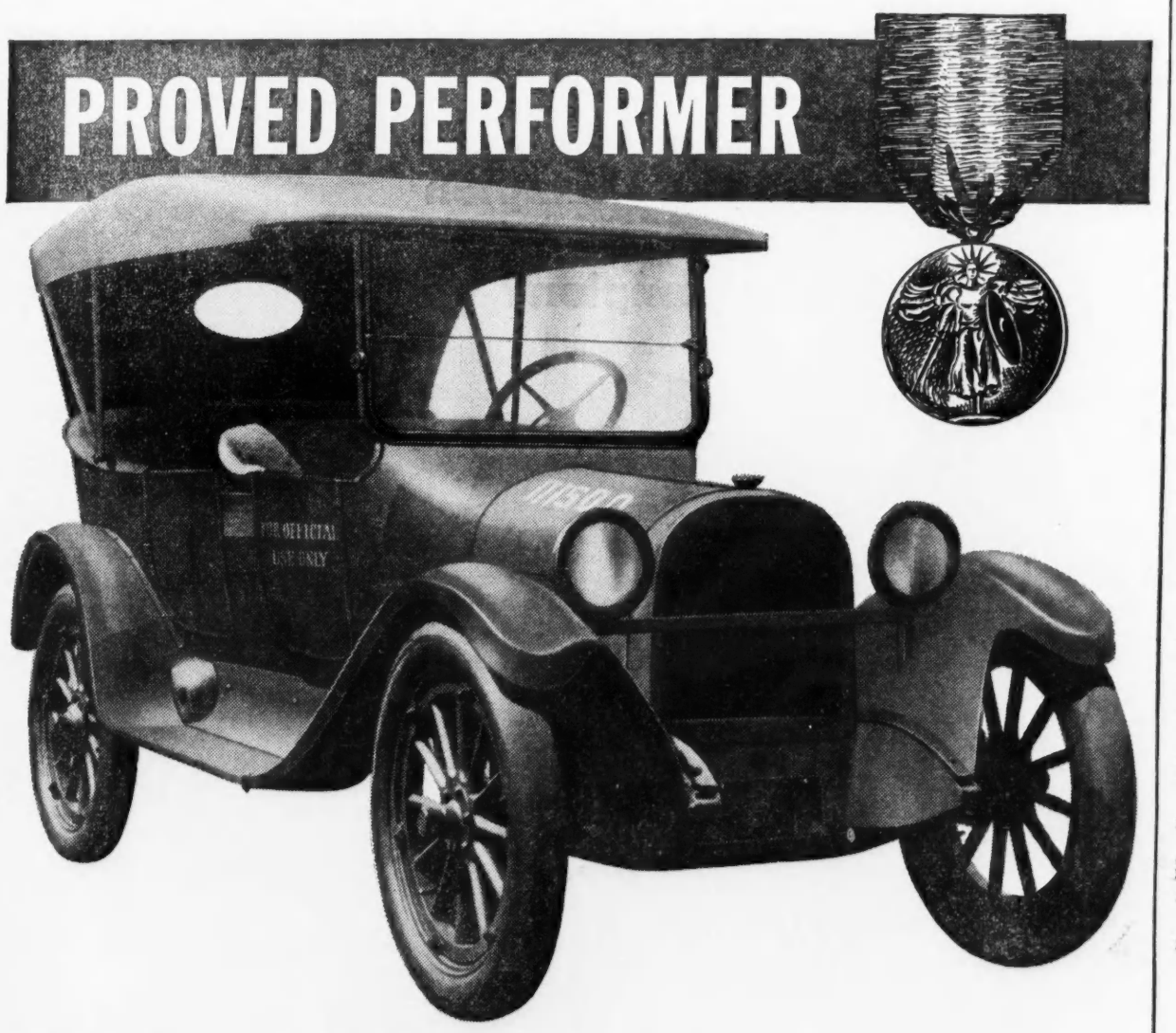
Produced by Exchange Lemon Products Co. • Corona, California

Distributed in the U.S. exclusively by
FRITZSCHE BROTHERS, INC.
76 Ninth Ave., New York 11, N.Y.
DODGE & OLCOTT, INC.
180 Varick St., New York 14, N.Y.

Exchange®
OIL OF LEMON U. S. P.

Pentachlorophenol—α-Picoline

Pentachlorophenol, dms., c.l., works, frt equald lb. 21 —
l.c.l., same basis lb. .24 - .29
truckload, 20,000 lbs. min. same basis lb. .21¼ —
Pentaerythritol, tech., bgs., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, industrial, tanks, Tex. refy gal. .14¼ —
Pepper, black, Malabar, spot, bgs lb. .45 - —
Red, Gondar, spot, bgs lb. .28 - .30
Japanese, hontaka, bgs lb. .33 - .34
birdseyes, bgs., new crop lb. .55 - .56
Mombasa, bgs., shipt lb. .30 - —
Nigerian, bgs. lb. .33½ - —
Turkish, bgs. lb. .20 - —
White, bgs. lb. .72 - .73
Peppermint leaves, USP, dom., bls., dms lb. .70 - .75
imp., bls lb. 1.25 - —
Pepsin, NF, 1:3,000 bulk lb. 3.45 - 3.50
Perchloroethylene, dms., c.l., or truckloads, dlvd. E dm. 85.00 - —
dlvd. W dm. 88.50 - —
l.c.l., dlvd. E dm. 95.00 - —
dlvd., W dm. 58.50 - —
tanks, dlvd. E lb. .10¾ - —
dlvd. W lb. .11¼ - —
Peru balsam, dms lb. 1.50 - 1.75
Petrolatum, amber, dms., c.l., refy. lb. .05 - .05¾
l.c.l., dlvd lb. .06¾ - .07
tanks, refy lb. .03¼ - .04⅛
Petrolatum, cream, dms., c.l., refy. lb. .06½ - .07⅛
l.c.l. dlvd lb. .08½ - .08¾
tanks, refy lb. .04¾ - .05⅛
extra, amber, dms., c.l., refy lb. .05¼ - .05⅞
l.c.l., dlvd lb. .07 - .07¼
tanks, refy lb. .03½ - .04⅜
USP, white, lily, dms., c.l., refy. lb. .06⅝ - .07¼
l.c.l. dlvd lb. .08⅜ - .09⅛
tanks, refy lb. .04⅞ - .06
snow, dms., c.l., refy lb. .07½ - .07¾
l.c.l., dlvd lb. .09⅜ - .09⅝
tanks, refy lb. .05⅛ - .05⅞
soft, dms., c.l., refy lb. .06¾ - .07¾
l.c.l., dlvd lb. .08½ - .08¾
tanks, refy lb. .05 - .05⅝
yellow, soft, dms., c.l., refy. lb. .05¼ - .05¾
l.c.l., dlvd lb. .06⅞ - .07⅛
tanks, refy lb. .03½ - .05⅞
Petroleum, lacquer diluent, 150°-240°F., b.r., tanks, West Coast, ex tax, Los Angeles gal. .169 - .204
East coast, N. J., N. Y. gal. .19 - —
Group 3, benzol-type gal. .14125- .14625
toluol-type gal. .13125- .13375
mineral spirits, reg., tanks, California, ex tax, San Francisco gal. .164 - —
East coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .11875- —
tankwagon, Boston gal. .19 - —
Buffalo gal. .195 - —
Chicago gal. .279 - —
Cleveland gal. .22 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Providence gal. .195 - —
Petroleum, mineral spirits, odorless, tanks, ref'y, Watson, Calif. gal. .245 - —
Borger, Tex gal. .24 - —
Houston, Tex gal. .24 - —
Wood River, Ill. gal. .2625- —
dlvd. N. J gal. .32 - —
dlvd. N. Y gal. .33½ - —
tankwagon, N. J., dlvd gal. .36 - —
N. Y., dlvd gal. .37 - —
Naphtha, cleaners, tanks, East Coast, N. J., and N. Y. gal. .17 - —
Group 3 gal. .12875- —
tankwagon, Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
High solvency (see Petroleum solvent, partial aromatic).
VM&P, 225°-300° F, b.r., tanks, West Coast, Los Angeles gal. .169 - —
Portland, Ore. gal. .175 - —
San Francisco gal. .174 - —
Seattle, Wash. gal. .175 - —
East Coast, N. J., N.Y. gal. .18 - —
Group 3 gal. .12875- —
tankwagon, Boston gal. .205 - —
Chicago gal. .289 - —
Cleveland gal. .23 - —
Newark gal. .195 - —
New York gal. .195 - —
Philadelphia gal. .20 - —
Pittsburgh gal. .19 - —
Solvent, partial aromatic, tanks, East Coast, N. J., N. Y., 205°-284° F., b.r., 38°, 43° C, m.a.p. gal. .24 - .26
19°-30°C. m.a.p. gal. .19 - .30
Petroleum, solvent, partial aromatic, 224°-280°F, b.r., 48°C, m.a.p., tanks, Houston gal. .215 - —
272°-387°, b.r., 31°C, m.a.p., gal. .29 - —
27°-29°C, m.a.p gal. .29 - .31
19°C., m.a.p gal. .32 - —
282°-325°F, b.r., 41.5°C, m.a.p., tanks, Houston gal. .25 - —
310°-392°F. b.r. 30°-38°C. m.a.p. gal. .27 - .30
17°-19°C., m.a.p gal. .35 - .38
324°-349°F, b.r., 37°C, m.a.p., tanks, Houston gal. .33 - —
350°-425° F., b.r., 32°-35° C., m.a.p gal. .30 - .30½
25°C., m.a.p gal. .39 - —
18°-21°C., m.a.p gal. .35 - .42½
352°-413°F, b.r., 36°C, m.a.p., tanks, Houston gal. .33 - —
Rubber, tanks, Cal., ex tax, San Francisco gal. .173 - —
East Coast, N. J., N. Y. gal. .18 - —
Group 3 gal. .12875- —
Stoddard, tanks, East Coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .12375- —
Pennsylvania, western gal. .15 - —
Boston gal. .19 - —
Chicago gal. .289 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .194 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works lb. .16 - .18¼
l.c.l. works lb. .17 - .18½
tanks, works lb. .14 - .16½
50-55% sulfonic content, non-ret. dms., c.l., works lb. .15½ - —
l.c.l., works lb. .16½ - —
tanks, works lb. 12½ - —
o-Phenetidine, dms., works lb. 1.00 - —
p-Phenetidine, dms., works lb. 1.00 - —
Phenobarbital, USP, dms., 100-lb. lots lb. 4.00 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots lb. 4.00 - —
Phenol, 90-92% (cresol 8-10%), non-ret. dms. c.l. frt. alld E. of Rockies lb. .15¾ - —
l.c.l., same basis lb. .16½ - —
tanks, same basis lb. .14 - —
82-84% (cresol 16-18%), non-ret. drums, c.l., same basis lb. .15¼ - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13½ - —
39° or above, tar distilled, non-ret. dms., c.l., same basis lb. .17¼ - .17¾
l.c.l., same basis lb. .18 - .18½
tanks, same basis lb. .15½ - —
USP, syn., dms., c.l., frt. alld. lb. .17¾ - —
1,000-lb. lots or more, same basis lb. .18½ - —
less than 1,000-lb. lots, same basis lb. .19½ - —
tanks, same oasis lb. .16 - —
Phenolphthalein, USP, or yellow, bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazine, NF, fib. dms., c.l., frt. adjusted lb. .45 - —
over 2,100 lbs., same basis lb. .47 - —
less than 2,100 lbs., same basis. lb. .49 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol.)
Phenylacetaldehyde, soln., 50%, bots lb. 2.40 - 2.70
100%, bots lb. 4.00 - 4.65
Phenylacetamide, 125-lb. dms., works lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
dl-Phenylalanine, dms., works lb. 27.00 - 37.50
1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib. dms., dlvd. E lb. 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —
Phenyldiethanolamine, dms., c.l., dlvd E. lb. .40 - —
l.c.l., dlvd. E lb. .41 - —
m-Phenylenediamine, dms., frt. alld. lb. .90 - —
p-Phenylenediamine, redist., dms., works lb. 2.00 - —
tech., refd., dms., same basis lb. 1.10 - 1.35
Phenylethanolamine, dms., c.l., works lb. .69¼ - —
l.c.l. same basis lb. .70 - —
Phenylethyl acetate, bots lb. 1.35 - 1.95
b-Phenylethylamine, dms., 1,000-lb. lots, works lb. 1.10 - —
smaller lots, works lb. 1.15 - 1.40
Phenylethylphenyl acetate, bots lb. 3.95 - 4.40
Phenylhydrazine base, CP, bots lb. 3.00 - 3.07
Hydrochloride, coml., kgs., works. lb. 1.75 - —
purif., bots., works lb. 5.17 - —
1-Phenyl-3-methyl pyrazolone-5, 250-lb. lots, dlvd. E lb. 1.70 - —
smaller lots, dlvd lb. 2.00 - —
o-Phenylphenol, dms., l.c.l., works lb. .42 - .44
p-Phenylphenol, bgs., c.l., works lb. .35 - —
l.c.l., works lb. .39½ - —
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
C.P., bots., fib. dms., works lb. 17.00 - 17.25
tech., tin dms., works lb. 10.45 - —
Phosphate, defluorinated (see under D).
Rock, Curacao, Atlantic ports, New Orleans ton. 43.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines long ton. 4.60 - —
70-68%, b.p.l., c.l., same basis long-ton. 5.00 - —
72-70%, b.p.l., c.l., same basis long-ton. 5.65 - —
75-74% b.p.l., c.l., same basis long-ton. 6.65 - —
78-76%, b.p.l., c.l., same basis long-ton. 7.65 - —
The above prices are based on fuel oil at $2.15 per bbl. and labor at $1.28. The 3c. labor advance and 9c. fuel oil advance currently absorbed.
Phosphorus amorph., red. dms., t.l. lb. .43 - —
smaller lots lb. .44 - .45
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 - .20¼
l.c.l., dms., works, frt. equald. lb. .21 - .21½
tanks, works, frt. equald lb. .17 - .19
Oxychloride, dms., c.l., works lb. .14 - —
l.c.l., dms., works lb. .17 - —
tanks, works lb. .12½ - —
Pentasulfide, solid, dms., c.l., works lb. .11½ - —
l.c.l., dms., works lb. .13 - .13½
Pentoxide, dms., c.l., works lb. .13½ - —
l.c.l. works lb. .16½ - —
Sesquisulfide, tins, cs., works lb. .29 - —
export, dms. lb. .31 - .36
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .17 - —
tankcars, works lb. .12½ - —
Phthalic anhydride, bgs, c.l., works, frt. equald lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19½ - —
Phthalimide, 97%-98%, dms., works, frt. alld lb. .65 - .70
Phthalylsulfacetamide, 1,000-lb. lots or more lb. 5.00 - —
a-Picoline, ret., dms., c.l., works, frt. equald lb. .43½ - —
l.c.l., works, frt. equald lb. .44 - —



This Dodge is the first passenger car used by the U. S. Army as a combat vehicle. It accompanied General John J. Pershing on the 1916 Mexican Expedition, and at one time was driven by a young lieutenant named George S. Patton! The old car still runs beautifully, 40 years since it saw the smoke of battle.

Outstanding service and time-tested dependability are points of pride with Esso Petroleum Solvents, too. These fine products have proved their worth over many years of use by customers who expect . . . and get . . . the highest quality for their money. Why not see for yourself? Specify Esso Petroleum Solvents next time you order.

You can depend on Esso Solvents for

MULTI-STORAGE AVAILABILITY—water terminals in industrial centers.

MODERN HANDLING METHODS—separate tank storage, pumping lines, tank cars and trucks are used in all handling operations. Prompt delivery to your door is assured.

SOLVENCY—Esso aliphatics and Solvesso aromatics cover both high and low solvency ranges.

CONTROLLED EVAPORATION—available in a wide range of evaporation rates with precise characteristics to meet your most exacting requirements.

FOR TECHNICAL ASSISTANCE—If you have a solvents problem or want further information on the specifications and characteristics of Esso Solvents—write or call our office nearest you. Our technicians will be glad to assist you.

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b,g-Picoline, 5°, dms., c.l., works, lb. .32½- —
l.c.l., works lb. .33 - —
g-Picoline, 98%, dms., c.l., works, lb. 2.65 - —
Pilocarpine hydrochloride, NF, bots oz 5.25 —
Nitrate, USP, bots., vials oz. 4.80 - 4.90
Pimento, Jamaican, bgs lb. .95 - —
Mexican, bgs. lb. .77 - —
Pink root, bls. lb. 3.00 - 3.25
d-Piperazine hexahydrate, French Codex, bots kilo 8.00 - 8.50
Piperidine 98% dms. frt. equald. lb. 2.90 - 3.00
Piperonyl butoxide, dms., dlvd. E. lb. 4.50 - 5.05
Cyclonene, dms., dvld. E lb. 3.70 - 4.25
Pitch, coaltar, 150°-170°F. m.p., tanks, works ton. 35.00 - —
Cottonseed, raw, dms., works lb. 02¼- .03
Linseed dms lb. .06 Nom.
Marine, dms. lb. .04¼- .05
Petroleum (see Asphalt, petroleum)
Soybean, dms., works lb 05 Nom.
Tall, dms., works lb. 03¾ 04½
Plaster of Paris (see Gypsum).
Platinum metal, works oz. 78.00 -82.00
Pleurisy root, bls lb 45 .50
Podophyllum resin, NF, dms lb. 11.95 - —
Poke root, bls lb. .19 - .22
Polymyxin, bulk, bots., dms., 50 billion units or more, 1,000,000 units. .52 - —
25-50 billion units 1,000,000 units. .54 - —
1-25 billion units 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000-lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - .48
tristearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000 lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - .48
Poppy seed, Argentine, bgs. lb. No prices.
Dutch, bgs. lb. .30 - .30½
Polish, bgs. lb. .29½- .30
Turkish, bgs lb. .25 - .25½
Potash, caustic, reg., flake, 88-92%, dms., c.l., works 100 lbs. 9.15 -
c.l. works 100 lbs 10.20 - —
liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., same basis 100 lbs 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid, 88-92%, dms., c.l., works 100 lbs. 8.70 - —
l.c.l., works 100 lbs. 9.75 - —
Potassium acetate, NF, dms lb. .31 - .36
Bicarbonate, USP gran., dms lb. .22 - —
powd., dms lb .24 - —
Bichromate, bgs., c.l., works lb. .15 - —
l.c.l., works lb. .15½- —
Potassium bichromate in dms. ½c. higher.
Bitartrate, NF, dom., gran. or powd., bbls., 5,000 lbs. 1 shipt lb. .33½- —
dms., c.l. lb. .33 - —
smaller lots lb. .34 - .37
imp., kgs lb. .25¾- .26
Bromate, bbls., 1,000 lbs. or more. lb. .50 - .52
25-200-lb lots lb. .55 - .57
Bromide USP gran., bbls., kgs. lb. .34 - .35
Carbonate, tech., calcined, bbls., c.l., works 100 lbs. 9.00 - —
l.c.l., same basis 100 lbs. 10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
USP, gran., bbls., dms lb. 16½- .18
powd., bbls., dms lb. .21 - .23
Chlorate, cryst., dms., c.l., works. lb. .10¼- —
l.c.l., works lb. .11½- .12
powd., dms., c.l., works lb. .10¾- —
l.c.l. works lb. .12 - 12½
export, dms., New York lb. .12¾- .13½
Nf gran dms lb .24 .34
Chloride, USP, cryst., dms. lb. .21 - .23
gran., dms lb .15 .17
powd., dms lb .24 .26
Chromate, tech., bgs lb. .50 - .50½
Citrate, USP gran., dms lb. .41 - —
powd., dms lb. .40½- .41¼
Cyanide, dms., 20,000-lb. lots or more, works lb. .45 - —
2,000-19,999-lb. lots lb. .455 - —
smaller lots, works lb. .465 - —
Dichromate (see Potassium bichromate).
Ferricyanide, drums, ton lots lb. .50 - —
Ferrocyanide, bgs., ton lots lb. .22½- —
smaller lots lb. .23 - —
Fluoborate, fib, dms., c.l., works. lb. .30 - —
l.c.l., works lb. .31 - —
Fluoride, dms., works lb. .37 - .38
Gluconate dms lb. .75 .79
Glycerophosphate, 75% solution, cbys lb. 2.15 - 2.25
Guaiacolsulfonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 4 to 100-dm. lots lb. .28½- .33
Hypophosphite, NF, fib, dms., ton lots or less lb. 1.00 - 1.03
Iodide, dms lb. 1.90 - 1.95
Manure salt 22% K_2O, bulk, mines unit-ton. .19 - —
Metabisulfite, gran., dms lb. .20 - .21
powd. dms lb 25 —
Muriate, dom., 50-60% K_2O, bulk, Carlsbad, N. M. unit-ton. .39½- .40½
50-51% K_2O paper bgs., Carlsbad, N. M ton 24.50 - —
Nitrate, cryst., bbls., 10,000-ton lots 100 lbs. 14.40 - —
smaller lots 100 lbs. 14.65 -14.90
gran., bbls., 20-ton lots 100 lbs. 9.75 - —
smaller lots 100 lbs. 11.10 -11.50
powd., bbls., 20-ton lots 100 lbs. 10.75 - —
100 lbs. 10.75 —
smaller lots 100 lbs. 12.00 -12.50
NF, gran., dms lb. .09¼- .11¾
Potassium nitrate in bags, 50c. per 100 lbs. less in kegs, $1 more.
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
Pentaborate, gran., bgs., c.l., works ton. 189.00 - —
dms., ton lots, ex whse ton. 293.50 - —
smaller lots, ex whse ton. 298.00 - —
Powdered Potassium pentaborate $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .15 - —
l.c.l., works lb. .16½- —
Permanganate, tech., dms., works. lb. .22½- .23½
USP dms. works lb. .24¾- .30¼
Persulfate, dms., 5-ton lots, works. lb. .18 - —
1-ton lots, works lb. .20 - —
Phosphate, tetrabasic, bbls., works lb. .16½- .18½
Prussiate, red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass, bgs., c.l., works 100 lbs. 17.00 - —
l.c.l 100 lbs 17.80 - —
soln., clarif., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
l.c.l., 5 dms. or more, works 100 lbs. 6.55 - 6.95
tanks, works 100 lbs. 5.45 —
Potassium silicate, soln., electrical grade, 29° Be, 1:2.0 dms., c.l., works 100 lbs. 6.50 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.25 - 7.65
tanks, works 100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms., c.l., works 100 lbs. 6.45 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.20 - 7.60
tanks, works 100 lbs. 6.10 - —
Silicofluoride, bbls., works lb. .09 - .10
Stannate, dms., frt. alld. E lb. .67 - .736
Sulfate, agricultural, 49-51%, K_2O, bulk, works ton. 35.00 - —
NF VII cryst. dms lb. .31 .33
gran. dms. lb. .18½- —
powder dms lb. .16½- .17
Sulfocyanide, NF, cryst. (see Potassium thiocyanate).
Thiocyanate, NF, cryst., dms. lb. .84 - .94
tech., works lb. .77 - .79
Titanate, ctrs., c.l., works lb. .14 - —
5-ton lots, works lb. .14½- —
1-ton lot or less, works lb. .14¾- —
Toluene sulfonate, dms., c.l. or tl. works lb. .42 - —
l.c.l., works lb. .46 - —
Potassium-magnesium sulfate, bulk, works basis 40% K_2SO_4, 18% MgO ton. 15.03 - —
Potassium-sodium tartrate, NF, gran., powd., dms., c.l. lb. .33 - —
5,000-lb. lots lb. .35½- —
smaller lots lb. .36 - .41
Potassium-titanium fluoride, fib. dms., works lb. .39 .40
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 —
l.c.l., works lb. .52½- .55
Pregnenolone, bots gram .60 - —
Acetate, bots gram .55 - —
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld lb. 2.90 - —
100 lb lots lb 3.60 - —
Progesterone, USP, bots., 100 gram lots gram .65 - —
Acetate, bots gram .70 - —
Propane, indust., tanks, group 3, gal. .03½- .04
N. Y. Harbor gal. .08 - —
n-Propyl acetate, dms., c.l., dlvd lb. .12¾- —
l.c.l., dlvd lb. .13¾- —
tanks, dlvd lb. .1075- —
Gallate, dms., 100 to 2,650-lb. lots, works lb 3.90 4.40
p-Hydroxybenzoate, USP, dms lb. 2.30 -2.40
Thiouracil, bots., 50-kilo lots or more kilo. 55.00 —
smaller lots kilo. 55.10 -55.30
Propylene dichloride, dms., c.l., dlvd. E lb. .0845- —
l.c.l., same basis lb. .095 - —
tanks, same basis lb. .07 - —
Prices in West 1c. higher dlvd., on same basis.
Glycol, indust., dms., c.l., dlvd. E lb. .14¾- —
l.c.l., same basis lb. .15¾- —
tanks, same basis lb. .13 - —
USP, dms., c.l., dlvd. E lb. .16¾- —
l.c.l., same basis lb. .17¾- —
tanks, same basis lb. .15 - —
Methyl ether, dms., c.l., dlvd lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Oxide, dms., c.l., dlvd. E lb. .17 - —
l.c.l., dlvd. E lb. .18 - —
tanks, dlvd. E lb. .15 - —
Psyllium seed, black, bgs lb. 80 - —
blonde bgs. lb. 18 - 20
husks, bgs lb 45 50
Pumice, dom. grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb .03⅝ .04¼
smaller lots lb. .03⅞ .04½
imp., Italian, silk-screen, coarse, bgs., ton lots lb. .06½- —
fine, bgs ton lots lb .04 —
sun dried coarse bgs ton lots lb .02½ .04
fine bgs. ton lots lb. .02½ .04
Pumpkin seed, bgs lb. .25 .28
Pyrethrin, syn., (see Allethrin).
Pyrethrum flowers fine grd 0.9% pyrethrins bbls works. lb. .45 - —
powd., 1.3% pyrethrins, bbls., works lb. .65 - —
liq. 20:1 basis (2 grams pyrethrins per 100cc odorless base), dms., works gal. 8.35 - 8.55
100:1 basis (10 grams pyrethrins per 100cc odorless base), dms., works gal. 41.75 -42.75
oleoresin, dewaxed, 20%, dms., works lb. 9.80 - 9.90
purif., 20% dms., works lb. 10.00 -10.10
Pyridine, denaturing, dms., c.l., works and frt. equald gal 2.77 - —
l.c.l., same basis gal 2.80 - —
refd., 2°, non-ret. dms., l.c.l., same basis lb. .75 - —
Pyridoxine hydrochloride, bots., 100-gram lots gram .55 - —
Pyrites, Canadian, works long-ton 3.00 5.00
Pyrocatechol (see Catechol).
Pyrogallol, NF lb. 3.25 - 3.45

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Pyroxylin—Silica

Pyroxylin, scrap, ungrd., amber, dms., works lb. .20 - —
black, dms., works lb. .12 - —
mixed, mottled, dms., works lb. .13 - —
shavings, amber, cs. works lb. No stocks.
mixed colors, dms., works lb. .11 - —
white, china, ivory, dms., works lb. .16 - —
dense, opaque, dms., works lb. .12 - .15
translucent pastels, cs., works lb. .14 - —
transparent colorless, dms., works lb. .25 - —
colors, dms., works lb. .15 - —
USP bots lb 9.50 - —

Q

Quassia chips lb. 17 - —
Quebracho extract, clarif., gran., 70% tannin, bgs. c.l., lb. .16½- .16¾
liq., 35% tannin, bbls., works lb. .08¼- —
solid., clarif., 64% tannin, bgs., c.l., ex-dock, duty extra lb. .12 23 64- —
ord. 63% tannin, bgs., c.l., same basis lb. .11 21 32- —
Quercitron extract, cryst., No. 1, bbls., l.c.l. lb. .40 - —
liq., No. 1, bbls., l.c.l. lb. .19 - —
Quicksilver (see Mercury metal).
Quince seed, bgs lb. 2.00 Nom.
Quinidine, NF, V cryst., cns., 100-oz. lots oz. 1.15 - —
powd., precip., cns., 100-oz. lots oz. 1.17 - —
Sulfate, USP, cns., 100-oz. lots oz. .87 - —
Quinine, NF, cns., 100-oz. lots oz. .54 - —
Bisulfate, USP, cns., 100-oz. lots oz. .37½- —
Dihydrochloride, USP, cns., 100-oz. lots oz. .54 - —
Ethylcarbonate, NF, cns., 100-oz. lots oz. .63½- —
Hydrobromide, NF, cns. 50-oz. cns. oz. .47½- —
Hydrochloride, USP, cns., 100-oz. lots oz. .47½- —
Phosphate, NF, cns. 100-oz. lots oz. .61 - —
Salicylate, NF, cns., 100-oz. lots oz. .55 - —
Sulfate, USP, cns., 100-oz. lots oz. .42 - —
Quinine and Urea hydrochloride, NF, cns oz. .56 - —
Quinoline, dms., c.l., frt. equald lb. .56¾- —
l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .50 - —

R

R salt, paste, dms., frt. alld., 100% basis lb. .83 - —
powd., frt. alld, 100% basis lb. .88 - .93
Rauwolfia serpentina root, powd., bbls, dms lb. 2.00 - 3.00
Red, BON acid maroons, pure, obls. lb 1.75 - —
resinated, bbls lb 1.50 - —
arylid, deep shades, bbls lb 3.60 - —
light shades, bbls lb 2.75 - —
maroon, bbls lb. 3.60 - 5.90
Red, cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.30 - —
light shade, same basis lb. 4.00 - —
medium shade, bbls., same basis lb 4.25 - —
medium-light shade, bbls., same basis lb. 4.05 - —
orange shade, bbls., same basis lb. 3.95 - —
Lithopone, deep shade, bbls., same basis lb. 1.93 - —
light shade, bbls., same basis, lb. 1.70 - —
maroon shade, bbls., same basis lb. 2.05 - —
medium shade, bbls., same basis lb. 1.85 - —
medium-light shade, bbls., same basis lb. 1.77 - —
orange-red shade, bbls, same basis lb. 1.64 - —

Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c per lb higher ex whse. Los Angeles and San Francisco

Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works lb. 1.60 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y lb. .12¾- —
Iron oxide, nat., 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copiej O., Easton, Pa., East St. Louis lb. .06 - —
syn. 98% ferric oxide, bgs., c.l., works lb. .12¾- —
l.c.l., works lb. .13 - —
Lake C toner, alizarin, bbls., works lb. 1.10 - 1.20
Red, lithol toner, bbls., works lb. .79 - —
rubine toner, pure, bbls., works, lb. 1.50 - —
resinated, bbls., works lb. 1.40 - —
Virginia type, bbls., works lb. 1.40 - —
Maroon toner, MNPT, kgs., works, lb. 3.60 - —
10,000-lb. lots, works lb. 4.22 - —
smaller lots, works lb. 4.24 - —
Metallic, bbls., c.l., works lb. .02½- —
l.c.l., works lb. .02¾- —
Naphthol ITR, bbls., works lb. 5.25 - —
Oxide (see Red iron oxide).
Persian Gulf, bgs., c.l., works lb. .06¾- —
l.c.l., works lb. .07 - —
Para toner, bbls lb. .95 - —
chlorinated, kgs lb. 1.10 - 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA, kegs lb. 5.35 - —
tungstated, PTMA, works, kegs. lb. 5.95 - —
Spanish oxide, bbls., c.l., ex dock lb. .05¾- —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb. .06½- —
Toluidine toner, deep shades, kgs., works lb. 1.60 - —
light shades, kgs., works lb. 1.60 - —
Turkey, bbls., works lb. .62 - —
Tuscan, bbls., frt. equald lb. .24½- .25
Venetian, 15%, bgs., works lb. .0350- .037
20%, bgs. works lb. .0475- —
25%, bgs., works lb. .0525- —
30%, bgs., works lb. .0550- —
35%, bgs., works lb. .0575- —
40%, bgs., works lb. .0625- —
Watchung-type, bbls lb. 1.95 - —
Red KB base (see 4-Chloro-2-aminotoluene).
Red, precipitate (see Mercuric oxide, red).
Red saunders, NF, powd., bbls lb. .35 - .40
Reserpine, cryst., bots., 100 gram lots gram 25.00 - —
25 gram lots gram 26.00 - —
10 gram lots gram 27.50 - —
Resorcinol, tech. grade, dms., c.l., works lb 77½- —
l.c.l., works lb. .78½- —
USP, cryst., dms., works lb. 2.75 - —
powd., dms., works lb. 2.95 - —
Monoacetate, NF, dms lb. 3.00 - 3.25
Rhatany root, bgs lb. .15 - .16
Rhodinol, 5-lb. cans lb 25.50 -34.00
Rhubarb root, India, whole, bgs. lb. 1.75N - —
powd., bbls lb. 2.50N - —
Riboflavin USP bots., dlvd kilo 105.00 - —
readily soluble, bots., dlvd kilo 130.00 - —
5'-phosphate-sodium, 100-kilo lots or more kilo 140.00 - —
Rochelle salt (see Potassium-sodium tartrate).
Rosin gum and wood (see Naval Stores Protective Coatings market).
Rotenone, fib. dms., works, 100% basis lb 10.00 - —
resin, 25-45%, fib. dms., works, 30% basis lb. 3.00 - —
Rottenstone, bgs., 5-ton lots, ex-whse lb. .03 - —
ton lots, same basis lb. .04 - —
Rutin, NF, fib dms. 25-kilo lots, kilo 17.50 -18.50
10 to 25-kilo lots kilo 17.50 -20.00
1 to 10-kilo lots kilo 18.90 -20.00
Ryania, 100% powd., bgs., c.l., works. lb. .22 - —
l.c.l., same basis lb. .24 - —

S

Sabadilla seed, powd., bbls lb. 49 - 49½
activated ground with lime, bbls lb. .30 - .32
Saccharin, USP, gran., soluble, dms., 1000-lb lots lb 1.60 - —
smaller lots lb 1.70 - 1.80
powd., soluble insoluble, dms., 1000-lb lots lb 1.65 - —
smaller lots lb. 1.75 - 1.95
Saffron, Spanish, USP, tins lb. 35.00 -40.00
Safrol, dms lb. 1.60 - —
Sage, Cretan, bgs lb. .11 - —
Dalmatian, bgs. lb. .40 - —
Italian, bgs. lb. .13 - —
Sago flour, raw, bgs lb. .06½- .06¾
refd., bgs lb. .09¼- .09¾
Sal soda (see Soda sal).
Salol, NF, gran., bbls., kgs lb. 1.10 - —
Powdered salol, 25c. higher
Salt, rock, paper bgs., c.l. 100 lbs. .98 - —
table, vacuum, common, fine, paper bgs., c.l 100 lbs. 1.12 - —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton 24.00 -28.00
Saltpeter (see Potassium nitrate).
Sandalwood, East Indies, chips bgs. .65 - .66
powd., fib. dms lb. .75 - .76
Sanguinarine nitrate lots oz. 4.75 5.50
Sarsaparilla root, imp., Honduras, bls lb. .65 Nom.
Mexican, bls lb. .63 Nom.
Sassafras root bark, ord., bls lb. .45 - —
select, bbls. lb. .65 - —
Schaeffer's salt, paste, dms., frt. alld., 100% basis lb. .95 - —
powd., bgs., frt. alld lb. .95 - —
Scopolamine hydrobromide, USP, bots oz. 10.25 -11.50
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½- —
smaller lots lb 31 32
Selenium, powd., dms., dlvd lb. 6.00 - 7.25
Senega root, bls lb. 3.50 - 3.60
Senna leaves, Alex., whole and half, bls lb. .19 - —
siftings lb. .17 - —
Tinnevelly, No. 1, bls lb. .16 - .18
No. 2, bls. lb. .13 - .15
No. 3, bls. lb. .11 - .13
powdered, bbls., bxs lb. .18 - —
pods, bls. lb. .14 - —
Serpentaria root, bls lb. 4.25 - —
Sesame seed, Nicaragua, hulled, shipt., bgs lb. .25 - .25¼
nat., bgs. lb. .16½- .17
Salvadorian, natural lb. No prices.
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .60 - —
bbls., 1,500-lb. lots lb. .62 - —
kgs., 1,500-lb. lots lb. .63 - —
refd., bgs., 1,500-lb. lots lb. .68 - —
bbls., 1,500-lb. lots lb. .70 - —
kgs., 1,500-lb. lots lb. .71 - —

Bonedry shellac prices for less than 1,500 lb. lots 1c. per lb. higher for all packages.

Lemon, No. 1, bgs., 10-bg. lots lb. .60 - .61
No. 2, bgs., 10-bag lots lb. .58 - .59
Superfine, bgs., 10-bag lots lb. .56 - .57
TN, bgs., 10-bag lots lb. .55 - .56

Shellac in 1 to 10 bg. lots 1c. more.

Shingle stain oil (see Oil, shingle stain).
Silica, amorph dry grd., 325 mesh bgs., c.l., works ton 25.00 - —
l.c.l., works ton 30.00 -40.00
hard-quartz, 99½, 325 mesh, bgs. c.l., works ton 20.00 - —
l.c.l., works ton 25.00 -30.00
140 mesh bgs., c.l., works ton 15.00 - —
l.c.l., works ton 20.00 - —

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Sodium Sulfite • Pentaerythritol • Pentachlorophenol

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DOW

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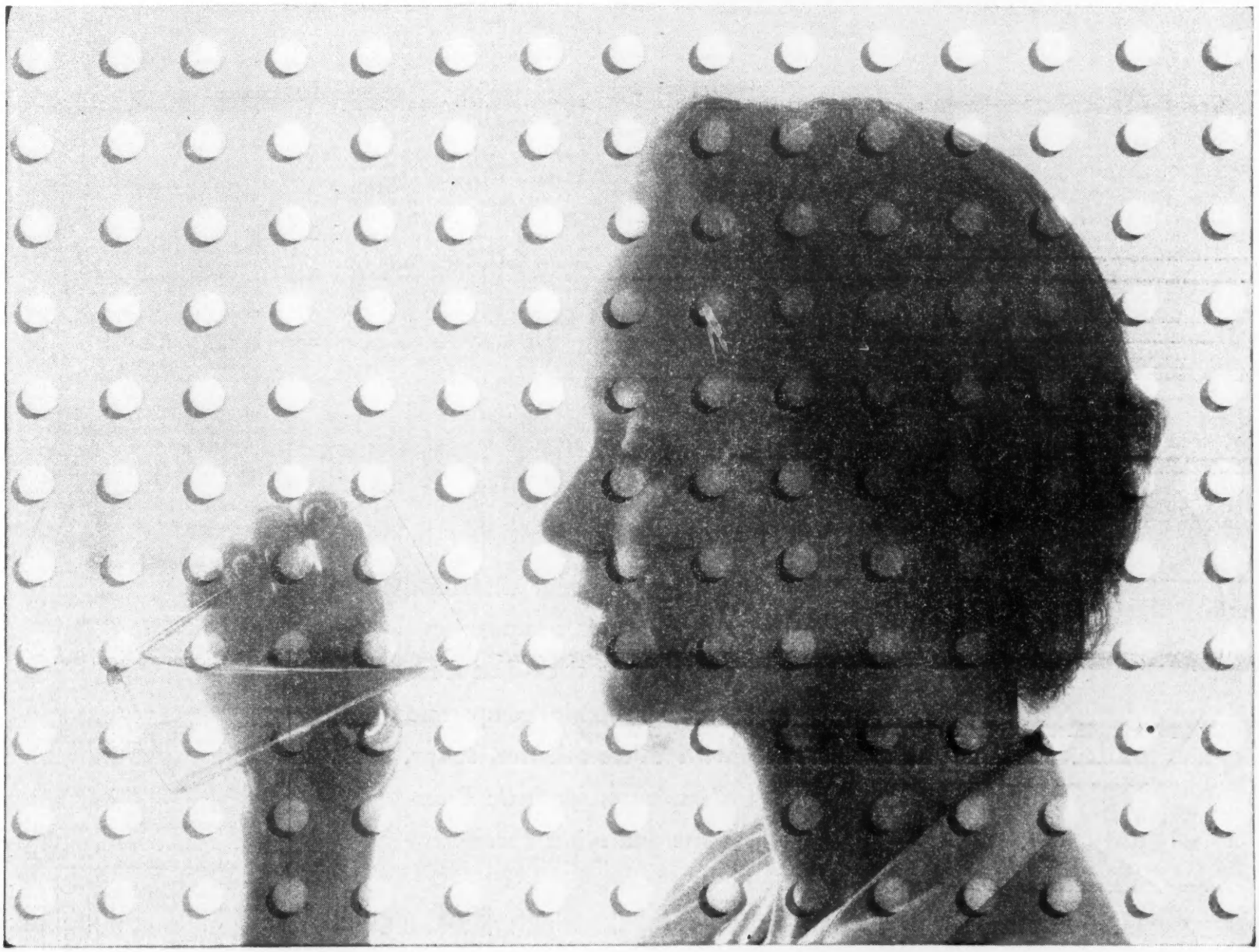

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42,000,000 aspirin tablets daily . . . 485 every second. That's the rate of consumption in the United States, today, as this unheralded "miracle drug" continues its multi-role as analgesic and antipyretic. The aspirin producer must supply this ever-increasing demand efficiently and profitably with a consistently dependable product. That's why so many have chosen Dow as their source for acetylsalicylic acid.

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DOW

Silicon Tetrachloride—Sodium Phosphate

Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
l.c.l., works lb. .20 .28½
Silver bullion, ingots, cs Troy oz. .85¼-
Cyanide, fib. dms., 2,500-oz. lots, oz. .77⅜- —
1,000 oz. lots oz. .77⅝- —
500-oz. lots oz. .77⅞- —
100-oz. lots oz. .78⅛- —
Nitrate, CP, crystals, bots., 2,500-oz. lots oz. .54¾- —
1,000-oz. lots oz. .56 - —
500-oz. lots oz. .56½- —
250-oz. lots oz. .57 - —
USP granular silver nitrate 4c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong NF, bots., dms. 1,000-oz. lots oz. 1.00 - —
Soapbark, whole, bls lb. No prices
crushed bgs., bbls lb. No Prices
powd., bbls lb. No Prices
Soda ash dense, 58% paper bgs., c.l., works 100 lbs. 1.70 - —
l.c.l., stock points 100 lbs. 2.80 - 4.57
bbls., c.l., works 100 lbs. 2.30 - —
l.c.l., stock points 100 lbs. 3.35 - 4.12
bulk, c.l., works 100 lbs. 1.40 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.65 - —
l.c.l., stock points 100 lbs. 3.75 - 4.52
bbls., c.l., works 100 lbs. 2.20 - —
l.c.l., stock points 100 lbs. 3.25 - 5.52
bulk c.l. works 100 lbs. 1.35 - —
Caustic, flake, powd., 76% dms., c.l., works, frt. equald 100 lbs. 4.25 - —
l.c.l., stock points 100 lbs. 5.45 - —

Soda, caustic, liq., 50%, sellers' tanks, works, dry basis 100 lbs. 2.70 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.70 - —
70%, sellers' tanks, works, dry basis 100 lbs. 2.80 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.80 - —
solid, 76%, dms., c.l., works 100 lbs. 3.85 - —
l.c.l., stock points 100 lbs. 5.05 - —
Sal., bgs., c.l., works 100 lbs. 1.40 - —
l.c.l. works 100 lbs 1.70 - —
Sodium acetate, anhyd., bgs., c.l., works lb. .12 - —
dms., c.l., works lb. .12¾- —
NF, 60%, gran., dms., c.l., works lb. .11 - —
dms., l.c.l., works lb. .1250- —
Alginate, NF, white powd., dms., ton lots, works lb. .87 - 1.30
refd., bbls., works lb. .83 - —
p-Aminobenzoate, dms., 1,000-lb. lots or more lb. 2.40 - —
smaller lots lb 2.45 - 2.50
p-Aminosalicylate, dms., 1,000-lb. lots or more, frt. adjusted lb 3.75 - —
smaller lots, same basis lb 3.80 - 4.25
Antimoniate, bbls., c.l., dlvd. E lb. 29 - —
l.c.l., dlvd E lb. .30½- —
Arsenate, dms., c.l., works lb. .12½- —
l.c.l., works lb. .13¾- .14¾
Arsenite, dms., c.l., works lb. .13½- —
l.c.l. works lb. .14¼- .15½
soln., dms., works gal. .70 - 1.10

Sodium ascorbate, dms., 25-50 kilo lots kilo.16.00 - —
10-kilo lots kilo.16.35 - —
5-kilo lots kilo.16.75 - —
1-kilo lots kilo.17.00 - —
bots, 500-gram lots kilo.17.50 - —
Benzoate, tech., bbls., dms., 100-lb lots or more lb. .39 - —
USP, bbls., dms. 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.70 - —
l.c.l., works 100 lbs. 3.70 - —
powd., bgs c.l., works 100 lbs 2.30 - —
l.c.l., works 100 lbs 3.30 - —
Bichromate, bgs., c.l., works lb. .11½- —
l.c.l., works lb. .12 - .13¼
Bifluoride, bbls., c.l., works, frt. equaled lb. .17½- —
l.c.l. same basis lb. .1790- —
Bisulfate, bulk., c.l., works 100 lbs. 2.00 - —
dms., cbys., c.l., works 100 lbs. 3.00 - 3.60
l.c.l., works 100 lbs. 3.50 - 4.10
Bisulfite, anhyd., bgs., c.l., works, 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - —
soln., 35°, bbls., c.l., works, 100 lbs. 1.55 - —
l.c.l., works 100 lbs. 2.05 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .34 - .35
Cacodylate, NF, dms., jars lb. 6.25 - 6.50
Carbonate, anhyd. (see Soda ash).
cryst., monohydrated (see Soda, sal).
monohydrated bgs., c.l., works 100 lbs. 2.90 - —
l.c.l., works 100lbs. 3.30 - —
Carboxymethyl cellulose (see CMC).

Sodium chlorate, cryst., dms., c.l., works lb. 08¾ - —
l.c.l., works lb. .10¼- .11
Chloride, tech. (see Salt).
USP dms lb. .05 - .12
Chlorite, tech., dms., c.l., works, lb. .58 - —
20-ton lots or more, works, lb. .66 - —
smaller lots, works lb. .70 - .73
Chloroacetate, tech., dms., c.l., works lb. .27 - —
l.c.l., works lb. .28 - —
Chromate, dms., c.l., works lb. .13¼- —
l.c.l., same basis lb 13¾ 15
Citrate, anhyd., dms. lb. .60 - .65
NF VIII, gran., dms lb. .26 .30½
USP, XVI gran., dms lb. .29½- 34
Sodium citrate USP powd prices ½c higher.
Cyanate, dms., 1,000-lb lots, works, lb. .85 - 1.10
smaller lots works lb 1.00 1.25
Cyanide flake, 96-98%, dms., c.l. or 20,000-lb lots lb .178 —
over 1,000-lb lots lb .188 - —
100-lb to 1,000-lb. lots lb 198 - —
Granular sodium cyanide 1c higher
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
l.c.l., works lb. .14¾- —
anhyd., dms., c.l., works lb. .17 - —
l.c.l., works lb. .17¾- —
Dichromate (see Sodium bichromate).
Ferrocyanide, bgs., 10-ton lots lb. .13½- —
smaller lots lb. .14 - —
Fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1250- —
l.c.l. works lb 1299- —
Formate, bgs., c.l., dlvd. E 100 lbs. 7.60 - —
l.c.l., works 100 lbs 8.65 - —
Genisate 100-lb fib dms lb 8.50 - —
Gluconate, refd., dms. lb. .80 - .83
tech., dms lb. .35 - —
Glutamate, mono-, dms., c.l lb. 1.55 - —
Glycerophosphate, NF, cryst., bbls. lb. 2.10 - 2.25
powd., bbls lb. 2.15 - 2.30
soln., 75%, cbys lb. 1.45 - 1.60
Hydride, dms., works lb. 1.30 - 3.00
Hydrosulfide (see Sodium sulfhydrate).
Hydrosulfite, dms., c.l., frt. alld lb. .20 - —
l.c.l., frt. alld lb. .20½- —
Hydroxide, tech. (see soda caustic).
NF pellets 100-lb dms. 1 to 100-dm. lots lb. .18½ .23
Hypophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulfiite, USP (see Sodium thiosulfate).
pea crystals, bgs. 100 lbs. 4.50 —
gran., bgs., c.l., works 100 lbs. 4.75 - 5.00
photo grade, bgs., c.l., works, 100 lbs. 4.50 - 4.75
l.c.l., works 100 lbs. 5.00 - 5.05
Hyposulfite, tech., bgs., works lb. 4.50 - —
l.c.l., works 100 lbs. 4.90 - 6.90
Sodium hyposulfite crystals in bbls., 50c. higher.
Iodide, USP, bots., dms lb. 2.55 - 2.94
Lactate, edible, 50%, cbys., dms., works lb. .21½ —
60%, cbys., dms., works lb. .25½- —
tech., 50%, cbys., dms., works, lb. 16½ —
Lauryl sulfate, dms., c.l., dlvd lb. .22 - —
l.c.l., dvld lb. .23 - —
tanks, dlvd lb. .20 - —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works ton 78.50 - —
l.c.l., ex whse ton.124.50 129 50
Sodium metaborate, octahydrate in bbls., $24.50 per ton higher
Tetrahydrate, bbls., c.l., works, ton.199.50 —
Metallic, bricks, 14,000 lb. or more, works lb. .17 - .19
less than 14,000 lb. lots, works, lb. .175 - .195
tanks, works lb. .16 - —
Metanilate, bbls., frt. alld lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.10 - —
l.c.l., works 100 lbs. 5.45 - 7.35
dms., c.l. 100 lbs. 5.50 - —
l.c.l. 100 lbs. 5.85 - 7.75
Pentahydrate, bgs., c.l., works, 100 lbs. 4.10 - —
l.c.l., works 100 lbs. 4.45 - 6.35
dms., c.l., works 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 5.10 - 5.85
Molybdate, bbls., cbys., works lb. .83 - .95
anhyd., powd., dms., works lb. .85 - .92
cryst., dms., works lb. .70 - —
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works ton.47.00 - —
bulk, c.l., works ton.43.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ton.51.25 - —
bulk c.l., same basis ton.47.75 - —
Nitrite, USP bbls. c.l. works, frt. equald lb. 08 - —
l.c.l., same basis lb. .09½- —
Orthosilicate, conc. dms., c.l., works 100 lbs. 6.00 - —
l.c.l., works 100 lbs. 6.35 - 6.75
hydrated flake bbls. c.l. works 100 lbs. 5.25 - —
l.c.l., dlvd. 100 lbs 7.00 - —
Oxalate, 88%, bgs., works 100 lbs.10.85 - —
Para-aminobenzoate (see sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate)
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .25½- —
l.c.l. same basis lb. 28½ 28½
pellets, bgs., c.l., same basis lb. .25 - —
l.c.l., same basis lb. .26 .28
Pentachlorophenate, powd., bgs., c.l., same basis lb. .24 - —
l.c.l. same basis lb. 25 .27
Pentachlorophenate, 20,000 lbs. min. truckloads, ¼c. per lb. over carlot prices.
Perborate, NF, tech., bgs., c.l., works lb. .173 - —
l.c.l., works lb. .178 - —
Peroxide, dms., c.l., dlvd. E. of Miss lb. .1860- —
l.c.l., same basis lb. .1910- .1960
Phenolsulfonate, USP 1X, gran., dms lb. .44 - .45
powd., dms lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., frt. equald 100 lbs. 7.45 - —
l.c.l., works 100 lbs. 7.85 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.45 - —
l.c.l., frt. equald 100 lbs 8.90 - —
duohydrate, bgs., c.l., frt. equald 100 lbs 7.05 - —
l.c.l., frt. equald 100 lbs. 7.25 - —
tribasic, cryst., bgs., c.l., frt. equald 100 lbs. 4.20 - —
l.c.l., frt. equald 100 lbs. 4.60 - —
Sodium phosphates in dms. 60c. higher than bgs.

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Paper de-inking Compounds
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Sodium prussiate, yellow (see sodium ferrocyanide).
Pyrophosphate, acid., bgs., c.l., works, frt. equald ..100 lbs. 10.75 - —
ferric, dms., 1,500-lb. lots, works, lb. .31 - —
smaller lots, works ..... lb. .32 - —
tetrabasic, anhyd., bgs., c.l., works, frt. equald ..100 lbs. 7.90 - —
t.c.l., frt equald 100 lbs. 8.10 - —
Salicylate, USP, dms ..... lb. .68 - —
Sesquicarbonate, bgs., c.l., works, lb. 2.10 - —
Sesquicarbonate, bgs., l.c.l., dlvd., zone 1 ..100 lbs. 3.85 - 4.10
zone 2 ..... 100 lbs. 4.10 - 4.35
zone 3 ..... 100 lbs. 4.40 - 4.65
zone 4 ..... 100 lbs. 5.10 - 5.35

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark E of 93° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Sesquisilicate, hydrated, bgs., c.l., works ..100 lbs. 4.60 - —
l.c.l., works ..... 100 lbs. 4.95 - 5.35
dms., c.l., works ..... 100 lbs. 5.00 - —
l.c.l., works ..... 100 lbs. 5.35 - 5.75
Silicate, liq., 40° Be, 1:3.2, turbid, dms., c.l., works 100 lbs. 1.35 - —
l.c.l., works ..100 lbs. 1.70 - 2.10
tanks, works 100 lbs. 1.00 - —
47° Be, turbid, 1:2.9, dms., c.l., works ..100 lbs. 1.95 - —
l.c.l., dms., works. 100 lbs. 2.55 - 2.70
tanks works 100 lbs. 1.60 - —
52° Be, turbid, 1:2.4, dms., c.l., works ..100 lbs. 2.30 - —
l.c.l., works ..100 lbs. 2.65 - 3.05
tanks, works ..100 lbs. 1.95 - —
solid, 1:3.2, bgs., works ...ton. 37.50 - —
Silicofluoride, bgs., c.l., works lb. .07 - —
l.c.l., works lb. .07 - .08
Sodium silicofluoride in dms., 4 10c higher
Stannate dms. works, frt alld. E lb. .535 - .589
Sulfa drugs (see Sulfa name)
Sulfanilate, bbls., works ..... lb. .22 - —
Sulfate, NF, VII, dried, powd., dms lb. .22½ - —
tech., anhyd., bgs., c.l., dlvd., E ..ton. 52.00 - —
detergent grade, bgs., c.l., works ton. 34.00 - —
rayon grade, bgs. c.l., works. ton. 31.00 - —
USP cryst fib dms lb. .17½ - .18
gran. fib dms lb. .17½ - .18
Sulfide, flake, dms., c.l., works, E., frt. equald lb. .05¼ - —
t.c.l., same basis lb. .05¾ - —
fused, bbls., c.l., works, E., frt. equald lb. .04¾ - —
t.c.l., same basis lb. .05¼ - —
Sulfite, anhyd., bgs., c.l., works. 100 lbs. 3.00 - —
t.c.l., same basis 100 lbs. 3.50 - —
powd., bbls., c.l., works 100 lbs. 7.25 - —
t.c.l., works 100 lbs. 7.50 - —
Sulfhydrate, flake, 70-72%, dms., c.l., works ..lb. .06½ - —
t.c.l., works lb. .07 - —
liq., 40-44%, tanks, works, 100% asis ton. 110.00 - —
Sulfocyanide, CP, (see Sodium thiocyanate).
Tetraborate (see Borax).
Tetrasulfide, liq., 40%, dms., c.l., works lb. .. ½ - —
t.c.l. works lb. .04 - —
tech., anhyd., 1 ton lots or Thiocyanate, CP, dms ..... lb. .55 - .65
more, works lb. .317 - —
less than ton lot, works lb. .337 - —
tech. dms. works lb. .277 - —
Thiosulfate, NF, cryst., bbls lb. .12½ - —
tech (see Sodium hyposulphite).
Titanate, ctns., c.l., works ...lb. .10½ - —
5-ton lots, works lb. .10¾ - —
1 ton or less, works lb. .11 - —
Toluene sulfonate, dms., c.l. or t.l. lb. .38 - —
l.c.l. ..... lb. .42 - —
Trichloroacetate, 90% 100-lb. dms., c.l., frt. alld., E lb. .37½ - —
t.c.l. frt. adjusted. E lb. .39½ - —
50-lb dms., c.l., frt. alld. E. lb. .38 - —
t.c.l. frt. adjusted. E lb. .40 - —
10-lb cns., c.l., frt. alld. E. lb. .44 - —
t.c.l. frt. adjusted. E lb. .46 - —

Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.

Tripolyphosphate, bgs. c.l., works, frt. equald 100 lbs. 8.05 - 8.25
l.c.l., same basis 100 lbs. 8.30 - 8.45
Trisilicate, powd., 1:3.2, bgs., c.l., works ..100 lbs. 8.65 - —
l.c.l., works ..... 100 lbs. 9.40 - 9.80
dms., c.l., works ..... 100 lbs. 9.05 - —
l.c.l., works ..... 100 lbs. 9.80 - 10.20
Tungstate, tech., kgs., dlvd. E lb. 1.80 - —
Sodium ammonium phosphate, bbls., works, frt. equald lb .23 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium-cinchophen (see Cinchophen sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .21 - —
l.c.l., same basis lb. .21½ - —
Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works lb. .28 - —
smaller lots, same basis lb. .30 - —
Solvent naphtha, coaltar, high flash, tanks, works gal. .31 - .35
petroleum (see Petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots works lb. .37 - .39
Tristearate, fib. dms., 20,000-lb. lots works lb. .33 - —
10,000 to 20,000-lb lots. works. lb. .35 - —
smaller lots works lb .38 - .40
Sorbitol, cryst., pellets, dms., c.l., works lb. .30 - —
1 to 5-ton lots, works lb. .32 - .33
powd., dms., 1 to 5-ton lots, works, lb. .38 - .39
soln., coml., aqueous, dms., c.l., works lb. .24¼ - —
ton lots works lb. .25 - —
smaller lots, works lb. .25¼ - —
tanks works lb .23¾ - —
reg., 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots works lb. 16¾ - —
smaller lots, works lb. .17 - —
tanks works lb. .15 - —
Soybean meal, 44%, bulk, Decatur. ton. 64.00 - 65.00
protein, chemically isolated, bgs., c.l., works lb. .23 - —
mechanically refd., bgs., c.l., works lb. .06 - —
Sparteine sulfate, ens ..... oz. .80 - .85
Spearmint leaves, dom., bls ..... lb .75 - —
imp., bls ..... lb. 1.25 - —
Spruce, extract, liq., reg. tanks, works lb. .01¾ - —
powd., super, bgs., c.l., works, lb. .05¼ - —
l.c.l., works ..... lb. .05½ - —
Squill, white, bls ..... lb. .17 - .19
powd., bbls., bxs ..... lb. .18 - .21
St John's bread, edible, bls ..... lb. .13 - .15
Stannic chloride, anhyd., dms., works lb. .738 - .748
Oxide, dms., dlvd. E ..... lb. .91½ - .92½
Stannous chloride, anhyd., dms., works lb. .799 - 1.068
Hydrous (crystals), dms., works. lb. .75½ - .76½
Sulfate, dms., works ..... lb. .918 - .938
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 7.14 - —
l.c.l. ..... 100 lbs. 7.29 - —
powd., paper bgs., c.l 100 lbs 7.26 - —
l.c.l. ..... 100 lbs. 7.41 - —

Prices for corn starch in cotton bags 25c. per 100 lbs. higher.

Potato, dom., Idaho, bgs., c.l., works lb. .06¾ - —
Maine, bgs., c.l., works ... lb. .06½ - —
l.c.l., spot ..... lb. .08½ - .09
Rice, bgs., l.c.l. ..... lb. .15½ - .16
Wheat, bgs. ..... lb. .0755 - .0780
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Stavesacre seed, bgs ..... lb. .60 - .61
Stearine oleo (see Oleostearine.)
Stomach substance, not USP, 100-lb. fib. dms lb. 2.90 - —
Stramonium leaves, bgs ..... lb. .18 - .20
Streptomycin hydrochloride, bulk, gram. .10 - —
gram. .10 - —
Strontium bromide, NF, cns., dms. lb. .77 - .78
Carbonate, pure, dms., 5-ton lots or more, works ..lb. .33 - —
1-ton lots, works ..... lb. .37 - —
tech., dms., works ..... lb. .19 - —
Chromate, bbls., works ..... lb. .46 - —
Iodide, jars, 25-lb. lots ..... lb. 3.42 - —
Nitrate, bbls., c.l., works ..100 lbs. 11.00 - —
l.c.l., works ..... 100 lbs. 12.00 - —
Salicylate, NF, dms ..... lb. 1.65 - —
Sulfate, air floated, 90%, 325 mesh, bgs., works ..ton. 56.70 - 66.15
Strophanthin, K, bots ..... oz. 25.00 - 25.50
G, (see Ouabaine, USP).
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75
Styrax, USP, es ..... lb. .78 - .80
Strychnine, NF, powd., cns., 100-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots oz. 1.14 - —
Sulfate, USP, cryst., cns., 25-oz. lots oz. .96 - —
powd., 100-oz. lots ..... oz. .85 - —
Styrene monomer, polymer grade, 99½%, dms., c.l., frt. equald, lb. .22¼ - —
l.c.l., same basis ..... lb. .23¼ - —
tanks, same basis ..... lb. .21 - —
synthetic rubber grade, 99%, dms., c.l., frt. equald ..lb. .19¼ - —
l.c.l., same basis ....lb. .20¼ - —
tanks, same basis ..... lb. .18 - —
Styrolyl acetate, bots ..... lb. 1.45 - 1.70
Sucrose, crude, bgs, works, 100 lbs. .0545 - —
refd., white, bgs., refy., E ..100-lbs. 8.65 - —
Octa-acetate, denaturing grade, 100-200-lbs., bgs., l.c.l., works. lb. .76 - —
Sugar, raw (see Suerose, crude).
Sulfabenzamide, dms ..... lb. 4.00 - 4.50
Sodium, dms ..... lb 4.10 4.60
Sulfacetamide, fib. dms ..... lb. 4.00 4.20
Sodium fib dms lb 5.00 5.20
Sulfadiazine, USP, microcrystals, dms lb. 10.60 - 11.10
powd., dms ..... lb. 10.25 - 10.75
Sulfadiazine-sodium, USP, dms lb. 11.25 - 11.75
microcrystals, dms ..... lb. 10.60 - 11.10
Sulfaguanidine, USP dms ..... lb. 2.50 —
Sulfamerazine, USP, microcrystals. lb. 10.65 - 11.15
Sulfamerazine-sodium, USP, dms., lb. 11.25 - 11.75
Sulfamethazine, microcrystals, dms., lb 8.90 9.40
powd., dms ..... lb. 8.50 - 9.00
Sulfanilamide, USP, 30-80 mesh., dms lb. 1.40 1.60
microcrystals, dms lb 1.70 1.90
powd., dms ..... lb. 1.30 - 1.50
Quinoxaline, veterinary, dms lb 6.50 - 6.75
Sulfapyridine, NF powd. bots. tins. lb. 7.00 7.50
Sulfapyridine-sodium, monohydrate, dms lb. 7.50 8.00
Sulfathiazole, USP, microcrystals, dms lb. 3.15 3.30
powd., dms ..... lb. 2.80 - 2.95
Sulfathiazole-sodium, USP, dms lb. 3.05 3.20
Sulfur, coml., flour, bgs., mines. bbls., mines ..... 100 lbs 3.05 - —
100 lbs. 2.30 - —
lump, bgs., mines ..... 100 lbs. 2.20 - —
bbls, mines ..... 100 lbs. 2.65 - —
crude, bulk, c.l., mines, contract. long-ton. 26.50 - —
export, f.o.b. vessels, Gulf ports long-ton. 31.00 - 33.00
domestic and Canada, f.o.b. vessel Gulf port ..long-ton. 28.00 - 29.50

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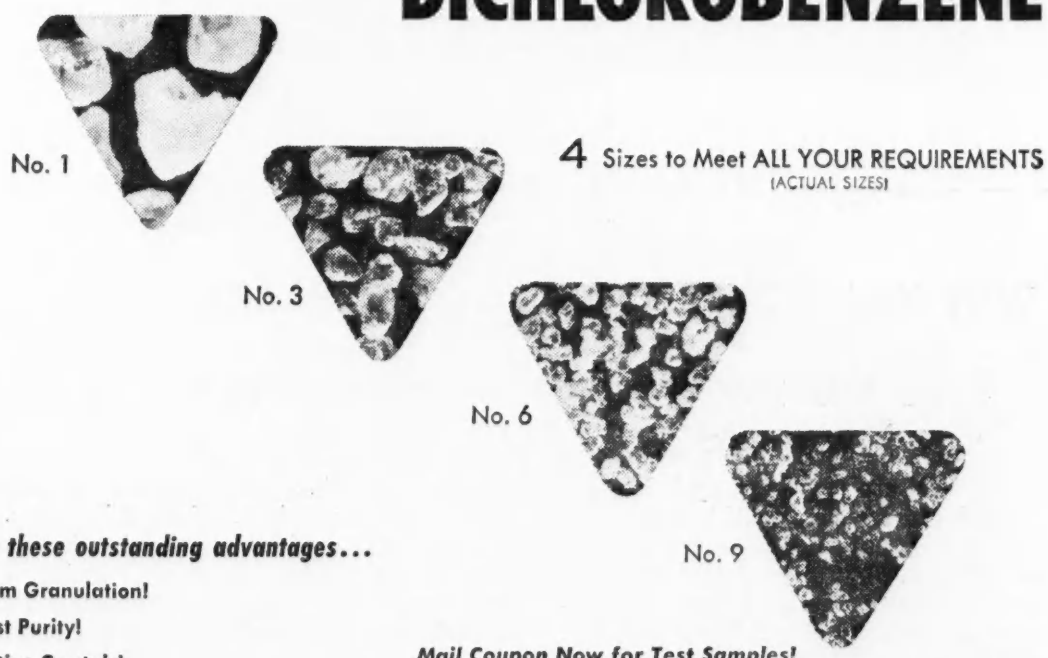

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- Produces Uniform Blocks!

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Ortho-dichlorobenzene • Methylene Chloride • Methyl Chloride
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Sulfur, Refd.—Tricresyl Phosphate

Sulfur, refd., flowers, USP, bgs., mines 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light, bgs., mines 100 lbs. 3.60 - —
bbls., mines 100 lbs. 4.50 - —
lump, bgs., mines 100 lbs. 3.30 - —
rolls, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.40 - —
salt block, bgs., mines 100 lbs. 3.50 - —
virgin block, bbls., mines 100 lbs. 3.45 - —
rubbermakers, comi., reg., bgs., mines 100 lbs. 2.40 - —
bbls., mines 100 lbs 3.55 - —
98 100% passing through 325 mesh, bgs mines 100 lbs 2.50 - —
bbls., mines 100 lbs. 3.65 - —
refd., bgs., mines 100 lbs. 3.25 - —
bbls., mines 100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines 100 lbs 3.85 - —
10% pine tar, bgs., mines, 100 lbs. 3.90 - —
Dichloride, dms., c.l., works, frt. equaled lb. .03¾- —
l.c.l., same basis lb. .04½- —
tanks, same basis lb. .03½- —
Dioxide, liq., comi., cyls., works, frt. equald lb. .10 - .12
multi units cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration, cyls., c.l., dlvd lb. .24 - —
Monochloride, 55-gal., dms., c.l., frt. equaled lb. .03¾- —
l.c.l., same basis lb. .04½- —
tanks, same basis lb. .03½- —
Sumac leaves, 28%, bgs., ex-dock, ton.125.00 - —
ground, bgs., ex-dock ton.120.00 - —

Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Balto., unit-ton. .88 - .91
Carteret, N. J. unit-ton. .88 - .91
Triple, 46% or more, a.p.a. pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

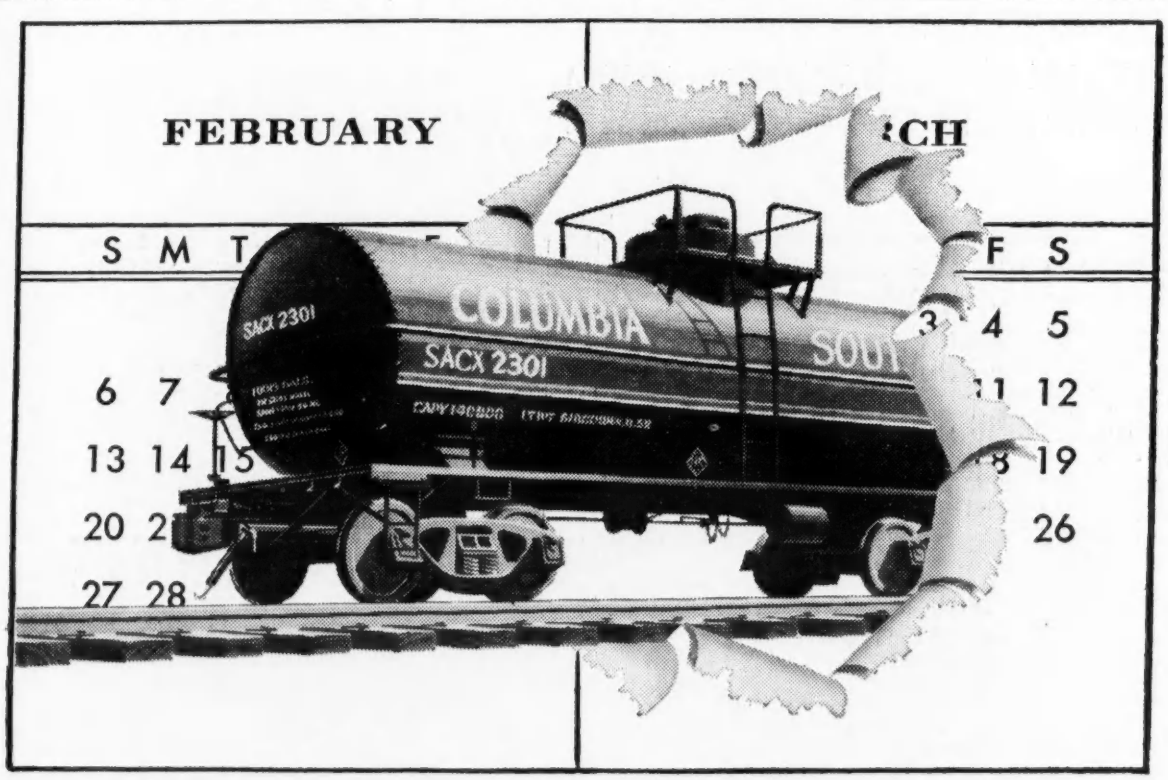
T

2,4,5-T dms. c.l., works, frt. equald, lb. 1.25 - —
l.c.l., same basis lb. 1.30 - 2.30
Isopropyl, ester, dms., c.l., works, frt. equald lb. 1.30 - —
l.c.l., works lb. 1.35 - —
Talc dom., ord., Calif., grad., bgs., c.l., works ton.32.00 -38.50
Vermont off color, grd., bgs., c.l., works ton.14.00 - —
l.c.l., works ton.17.50 - —
fibrous, New York, grd., bgs., c.l., works ton.25.00 -30.00
l.c.l., works ton.28.00 -30.00
99.5%, 325 mesh, bgs., c.l., works, ton.27.00 - —
l.c.l., works ton.30.00 -32.00
99.95% micronized, bgs., works ton.36.00 - —
imp., Canadian grd., bgs., c.l., mines ton.15.25 35.00
Tallow, edible, tanks, dlvd lb. .10¾- —
inedible, extra, tanks, dlvd lb. .08⅛- —
fancy, bleachable, tanks, dlvd, lb. .08⅜- —
No. 1, tanks, dlvd lb. .07½- —
special, tanks, dlvd lb. .07¾- —
sulfonated, 25%, bbls., l.c.l. lb. .07¾- .09
50%, bbls., l.c.l. lb. .09¾- .11
Tankage, animal, feeding, 9-11% ammonia, bulk unit-ton. 6.00 - —
Chicago unit-ton. 7.00 - —
Tapioca flour, Brazilian, ex whse, bgs. lb. .08¼- .09
Siamese, top grade, ex whse lb. .07½- .07¾
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-28%, dms., c.l., same basis, gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l., same basis, gal. .70 - .72½
l.c.l., same basis gal. .73½- .74½
tanks, same basis gal. .62½- —
Coal (see Coaltar).
Tartar emetic (see Antimony-potassium tartrate).
Terpine glycol ether, dms., c.l., works lb. .23½- —
l.c.l., works lb. .25½- —
tanks, works lb. .22 - —
Hydrate, comi., bbls., c.l. lb. .24½- —
l.c.l. lb. .25 - .25½
NF, cryst., fib. dms lb. .52½- .57
powd., fib., dms lb. .65 - .69
a-Terpineol, dms., l.c.l., dlvd. E lb. .19 - —
Terpineol, comi., dms., c.l., South, lb. .13½- —
l.c.l., South lb. .14 - —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .60 - .75
prime, dms lb. .55 - .70
Propionate, dms. lb. 1.75 - 2.00
Terra alba, (see Gypsum).
Testosterone, USP, 100-gm. lots, bots. gram. .79 - —
Propionate, USP, 100-gm. lots, bots. gram. .75 - —
Tetrachloroethane, dms., works. lb. .14½- —

Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55 gal. dms., works lb. .20½- .21½
smaller dms., works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., dlvd. E lb. .64 - —
l.c.l., dlvd. E lb. .65 - —
Pyrophosphate, 40%, cns., dms., frt. equald lb. .69 - —
Tetraethylenepentamine, dms., c.l., dlvd. E lb. .57½- —
l.c.l., dlvd. E lb. .58½- —
tanks, dlvd. E lb. .56 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium metal, dlvd lb.12.50 -15.00
Sulfate, 99%, bots., dlvd lb. 8.00 -13.00
Theobromine, NF, fib. dms lb. 3.75 - —
And sodium acetate, USP, fib. dms lb. 4.05 - 4.10
Sodio-Salicylate, NF, fib. dms lb. 3.35 - 3.40
Theophylline, anyhd. or USP, 100-lb. dms lb. 3.65 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo.100.00 - —
Mononitrate, USP, fib. dms kilo.100.00 - —
Thiocarbanilide, ums lb. .50 - .52
Thiodiphenylamine (see Phenothiazine).
Thiourea, tech., dms., c.l., works lb. .40 - —
l.c.l., works lb. .42 - —
Thorium nitrate, purif., fib. dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, bots., 1-kilo lots kilo.450.00 -500.00
Spanish, bgs. lb. .10 - —
Thyme leaves, French, bgs lb. .20 - —
Thymol, fib. dms lb. 2.50 - 2.65
Iodide, NF, dms lb. 7.30 - —
Timbo root (see Cube root).
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous).
Metal (Straits) lb. .91 - —
Oxide (see Stannic oxide).
Sulfate (see Stannous sulfate).
Tetrachloride anhyd. (see Stannic chloride, anhydrous).
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
ceramic, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
reg., bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd lb. .23½- —
Metallurgical, nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla.ton. .120 - —
Niagara Falls, N. Y. ton.137.50 - —
5-ton lots, same basis. ton.142.50 - —
ton lots, same basis. ton.147.50 - —

Milled titanium dioxide $7.50 per ton higher.

rutile, non-chalking, bgs., c.l., dlvd. E lb. .24½- —
l.c.l., dlvd. E lb. .25½- —
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd lb. .08⅜- —
l.c.l., dlvd lb. .08⅞- —
Tetrachloride, tech., dms., c.l., works lb. .40¾- —
l.c.l., works lb. .43¾- —
tanks, works lb. .39¾- —
dl-a-Tocopherol, bots kilo.149.65 - —
Acetate, bots kilo.136.00 - —
o-Tolidine base, dist., kgs lb. 1.30 - —
Tolu balsam, cns. lb. 4.25 - 4.50
Toluene (see Toluol).
p-Toluenesulfonamide, flake, dms., frt. alld lb. .64 - .66
powd., dms., works lb. .70 - —
solid, dms., frt. alld lb. .61 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tanks, same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid, dms., frt. alld. lb. .60 - .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa. gal. .34 - —
Birmingham dist gal. .32 - —
Chicago dist gal. .35 - —
Cleveland, dist gal. .34½- .35
Geneva, Utah gal. .26 - —
Johnstown, Pa. gal. .32 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo. gal. .32 - —
Philadelphia district gal. .34 - —
Pittsburgh dist gal. .32 - —
Sparrow's Point, Md gal. .34 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32½- .33
Petroleum, indust., 2° tanks, works:—
Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Detroit, Mich gal. .35 - —
Houston, Tex. gal. .33 - —
Philadelphia, Pa. gal. .34 - —
Providence R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —
2,4-Tolylenediamine, cryst., fib., dms., frt. alld lb. .94 - —
powd., same basis lb. 1.00 - —
Tonka beans, Angostura, cks lb. 1.65 - 1.80
Brazilian, Surinam, cs lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns oz. .42 - —
Toxaphene, dms., c.l., t.l., works. lb. .20 - —
l.c.l., l.t.l., works lb .26 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Tributyl citrate, tech., dms., c.l., works lb. .40½- —
l.c.l., works lb. .41½- —
tanks, works lb. .39 - —
Phosphate, dms., c.l., works lb. .52 - —
l.c.l. same basis lb. .53 - —
tanks, same basis lb. .50 - —
Tributylamine, dms., c.l., works. lb. .67 - —
l.c.l., same basis lb. .68 - —
tanks, same basis lb. .65 - —
Trichlorobenzens, dms., c.l., works, frt. alld. E lb. .14½- —
l.c.l., frt. alld E lb. .15½- —
tanks, frt. alld. E lb. .13 - —
Prices in the West 1¾c. higher.
Trichloroethylene, dms., c.l., or t.l., works, frt. equald lb. .11¼- —
l.c.l., dlvd. E lb. .13½- —
tanks, works, frt. equald lb. .10¼- —
Trichloroethane, dms., c.l., works. lb. .13 - —
l.c.l., works lb. .13½- —
tanks, works lb. .11½- —
Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
l.c.l. dlvd. lb .36 - —
tanks, dlvd. lb. .33 - —
petroleum, dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd. lb. .36 - —
tanks, dlvd. lb. .33 - —



WHY WAIT TO CONVERT TO 73% CAUSTIC SODA?

Every day you delay may be costing you money

Several customers who recently changed from 50% to 73% caustic soda said they would have converted sooner but they didn't think the *savings story* applied to their operations.

Perhaps you have not analyzed recently the possible profits from converting to 73%. But don't dismiss the matter lightly, because a little figuring may disclose that you, too, are in a position to realize substantial savings.

This applies whether you are a large user or a small user, and whether you use high strength directly or dilute it. Actually, savings often apply to some customers who buy solid and flake caustic.

A combination of factors determines how great your savings will be. Location plays an important part. But it costs you nothing to find out. Our Technical Service Department will be glad to assign one of its specialists to discuss your individual case, to make recommendations and to estimate your annual savings.

So why wait? Do it now. Write our Caustic Soda Department at the Pittsburgh office.

COLUMBIA-SOUTHERN CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER · PITTSBURGH 22 · PENNSYLVANIA

DISTRICT OFFICES: Cincinnati
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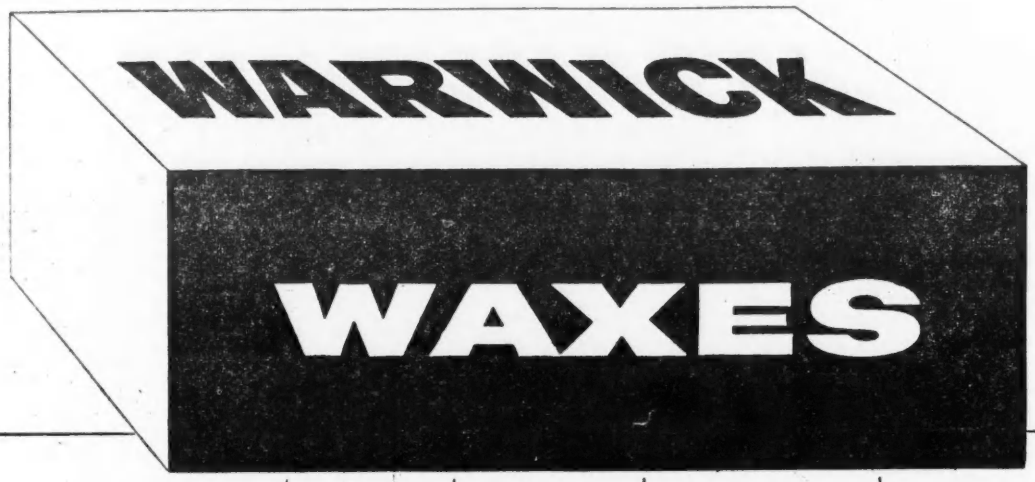
Save this handy specification chart for...



Warwick Waxes—waxes of proved performance—offer you the broadest selection in the wax field. Whatever your product or your problem—for technical help on formulations, for samples, for technical data, our wax chemists are at your service. Write or phone Warwick today . . . ask for our 1955 price list. Prompt delivery. Stock and service centers in 30 principal cities. Address Dept. W5-255.

NAME OF WAX	MELTING POINT ASTM D-127-30	PENETRATION 100G/77°/ 5 SEC.	COLOR N P A	ACID NUMBER	SAPONIFICATION VALUE	TYPE
CARDIS* ONE	195-200	1-2	4-5	12-16	55-65	EMULSIFIABLE PETROLEUM WAX
CARDIS* 314	184-189	4-6	4-5	13-16	45-55	EMULSIFIABLE PETROLEUM WAX
CARDIS* 319	180-185	5-7	4-6	18-20	65-70	EMULSIFIABLE PETROLEUM WAX
CARDIS* 320	180-185	5-7	4-5	28-30	75-80	EMULSIFIABLE PETROLEUM WAX
CARDIS* 262	195-200	3-5	BROWN	14-17	40-45	SPECIALLY PROCESSED PETROLEUM WAX
FORTEX	190-200	3-5	2½-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND PLASTIC
MEKON* B-20 A-20 Y-20	190-195 190-195 190-195	3-5 3-5 3-5	BROWN-BLACK AMBER-6 MAX. YELLOW-3-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
POLYMEKON*	200-MIN.	0-3	YELLOW	0.0	0.0	SPECIALLY PROCESSED PETROLEUM WAX
WARCO WAX 180	180-185 180-185	4-7 4-7	WHITE BROWN	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
WARCO WAX 150-A	145-155 145-155	15-20 15-20	YELLOW 1-2 BROWN	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
WARCOSINE	150-155	15-20	WHITE	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
PARAFFIN	136-138 ASTM	FULLY REFINED				CRYSTALLINE
CANE WAX 700	169-174	1.0-1.5	BROWN	25-30	70-90	VEGETABLE WAX
CANE WAX 500	171-176	3 MAX.	LIGHT BROWN	25-35	55-70	VEGETABLE WAX
CANE WAX 517	165-170	1 MAX.	BROWN	20-30	65-75	VEGETABLE WAX

A SUBSIDIARY OF Sun CHEMICAL CORPORATION

Warwick Wax Co., Inc.

10th Street and 44th Avenue, Long Island City 1, N. Y.
STillwell 6-1100

DIVISIONS OF SUN CHEMICAL CORPORATION

HORN • **HUDSON** • **WILLEY** (paints, maintenance and construction materials, industrial coatings) • **WARWICK** (textile and industrial chemicals) • **WARWICK WAX** (refiners of specialty waxes) • **RUTHERFORD** (lithographic equipment) • **SUN SUPPLY** (lithographic supplies) • **GENERAL PRINTING INK** (Sigmund Ullman • Fuchs & Lang • Eagle • American • Kelly • Chemical Color & Supply Inks) • **MORRILL** (news inks) • and **ELECTRO-TECHNICAL PRODUCTS** (coatings and plastics)

Triethanolamine—Wax, Microcrystalline

Triethanolamine, dms., c.l. dlvd E lb. .23¼- —
l.c.l., same basis lb. .24¼- —
tanks, same basis lb. .21½- —
Triethylamine, dms., c.l., works, dlvd. E lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks, same basis lb. .45 - —
Triethyl citrate, tech., refd., dms., c.l., works lb. .48 - —
l.c.l., works lb. .53 - —
tanks works lb. .45¾- —
Phosphate, dms., c.l., works lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethylene glycol, dms. c.l. dlvd E lb. .19¾- —
l.c.l., same basis lb. .20¾- —
tanks, same basis lb. .18 - —
Triethylenetetramine, dms c.l. dlvd E lb. .48½- —
l.c.l., dlvd E lb. .49½- —
tanks, dlvd E lb. .47 - —
Trimethylamine, 25-30% soln., dms., c.l., works, frt. equald., 100% basis lb. .42 - —
l.c.l. works frt. equald. 100% basis lb. .42½- —
tanks, works, frt. equald, 100% basis lb .33 - —
Tripentaerythritol bgs. t.c.l., works, lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .40 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene glycol, dms., c.l., frt. alld. E. lb. .19¾- —
l.c.l. frt alld. E. lb. .20¾- —
Prices 1c. per lb. higher in West.

Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic)
Phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:7½ dms., works lb. 6.25 - —
dl-Tryptophane, fib. ctns., works, kilo.165.00 - —
Tungsten metal, powd., 96.8%, dms., dlvd lb. 4.95 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots gram. .75 - .85

U

Urethane, USP, dms lb 1.50 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Urea, dom., 46% N, bgs., c.l., t.l., dlvd. zone 1 ton.120.00 - —
l.c.l., ex whse., zone 1 ton.140.00 - —
45% N, bgs., c.l. (30 tons), dlvd. zone 1 ton.137.00 - —
Zone 2 ton.153.00 - —
Zone 1 prices are basis delivered Kan., Neb., N. Dak., Okla., S. Dak., Tex. and E.
Zone 2 prices include all states west of Zone 1.
Urea ammonia liquor, A and B grades N basis, tankcars, Belle, W. Va ton.128.00 - —
C grade, tankcars, same basis. ton 126.50 - —
37 grade tankcars, same basis. ton.158.50 - —
Uva ursi leaves, bls lb. .12 - .14

V

Valerian root, Belgian, bgs. lb. .38 - .40
dl-Valine, dms., works lb.21.00 -27.50
Valonia beards, 40-42% tannin, bgs., ex dock ton.62.00 - —
cups, 28-30% tannin, bgs., ex-dock ton.44.50 - —
extract, powd., 63% tannin, bgs., ex-dock, duty extra lb. .08 - .08¼
Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins lb.10.50 -11.00
Mexican, cuts, tins lb.10.25 Nom.
whole, tins lb.10.50 -11.00
Tahiti, cs. lb.10.25 Nom.
Vanillin, ex eugenol, tins, 25-lb. lots, lb. 6.50 - 6.75
smaller lots lb. 6.90 - 7.25
ex guaiacol, tins, 25-lb. lots lb. 3.00 - —
smaller lots lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots lb. 3.00 - —
smaller lots, ctns lb 3.05 3.15
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E lb. .18½- —
l.c.l., dlvd. E lb. .19½- —
tankcars, dlvd. E lb. .16½- —
tanktrucks, dlvd. E lb. .17½- —
n-Butyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Chloride monomer, tanks, frt. equald lb. .10½- —
Ether, USP, anesthesia, bots., 50 c.c., hospitals, bot 1.12 - —
75 c.s. bot. 1.56 - —
Ethyl ether, tech., dms., c.l., works, lb. .26 - —
l.c.l., works lb. .28 - —
tanks, works lb. .25 - —
Vinyl, isobutyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Methyl ether, cyls., works lb. .23 - —
tanks, works lb. .20 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride (see Trichloroethane).
2-Vinylpyridine, dms., works lb. 1.40 - 1.5.
Vinyltoluene, dms., c.l., works lb. .20¼- —
l.c.l., works lb. .21¼- —
tanks, works lb. .19 - —
Viosterol, in alcohol, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units, 1,000,000 units. .035 - —
in nat. veg. oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .02 - .04¾
lots of 1 billion USP units, 1,000,000 units. .025 - .05¼
lots of less than 1 billion USP units, 1,000,000 units. .03 - .05¾
Vitamin A, syn., acetate, crystalline, beads, 500,000 A units per gram gram. .07¼- —
dry, 500,000 units per gram, kilo lots kilo.72.50 - —
325,000 units per gram, same basis kilo47.10 - —
250,000 units per gram, same basis kilo.36.25 - —

Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.

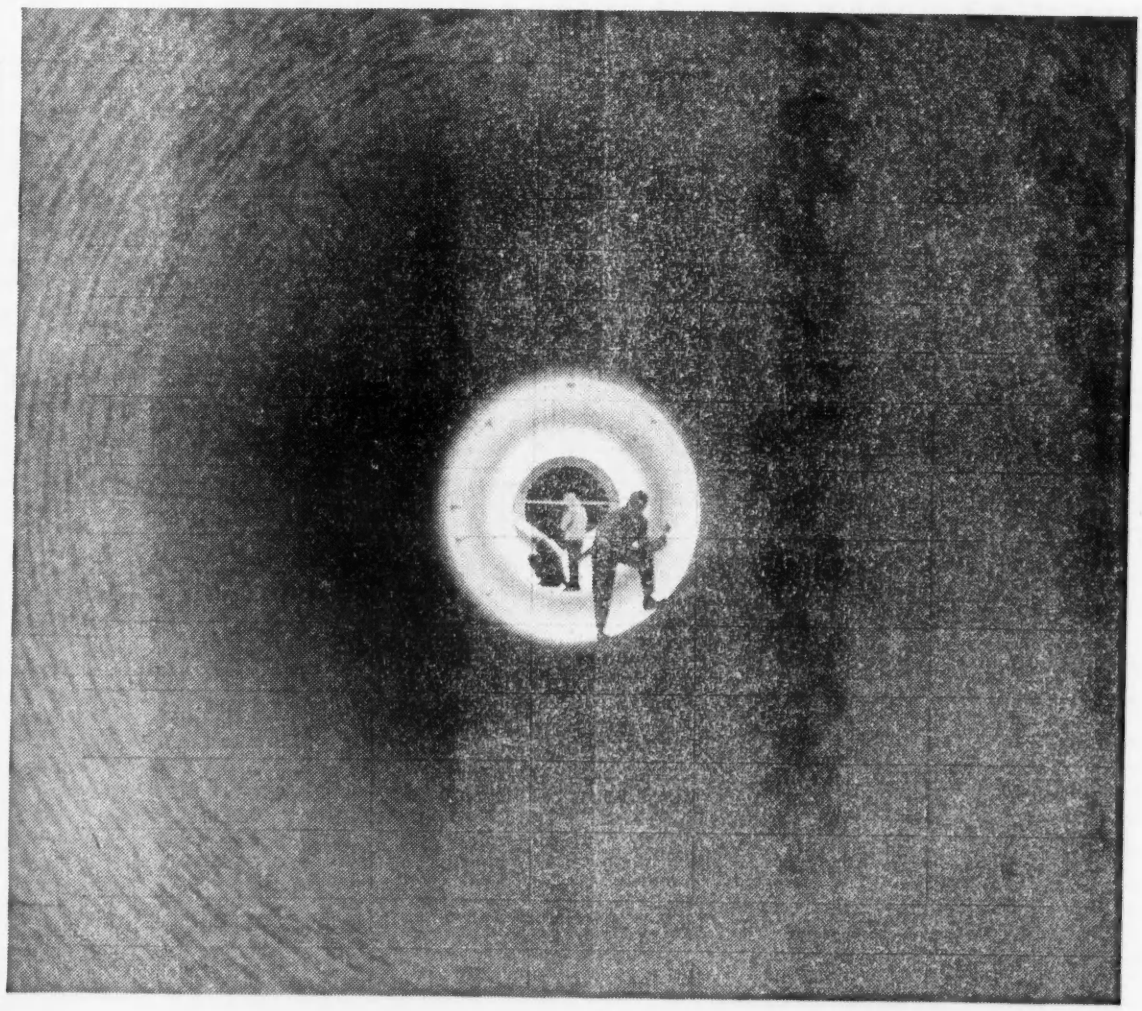
liq., in oil, 1,000,000 A units per gram 1,000,000 units. .12 - —
Palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. .12 - —
in oil, 1,000,000 A units per gram 1,000,000 units. .12 - —
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran concentrate and Yeast).
B_6 (see Pyridoxine hydrochloride).
B_{12} crystalline, 1-gram or 5-gram vials gram.245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gram.185.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver, Calciferol, and Viosterol).
D_2, dry, 850,000 units per gram, kilo lots kilo.42.50 - —
less than kilo lots kilo.45.00 - —
D_3 (see Calciferol).
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin).
K, Active (see Menadione).
K_1, 25 gram bots gram. 4.50 - —
Violet methyl toner (see Blue methylviolet toner
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root, bark, bls lb. 2.50 Nom.
Warfarin, 0.5%, dms., 50 lb lots, dlvd lb. 1.95 - —
25-49 lb. lots, f.o.b., N.Y., or Chi lb. 2.05 - —
5-24 lb. lots, ctns. f.o.b., N. Y., lb. 2.15 - —
Wattle bark, fair average, African, bgs., ex dock ton.98.00 - —
merchantable, bgs., ex dock ton.94.00 - —
extract, liq., 35% tannin, bbls. lb. .09¾- .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .09¾- —
S. Africa, 60% tannin, bgs., ex-dock, duty extra lb. .10 - —
Wax, amorph, (see Wax microcrystalline).
Bayberry, bgs., spot lb. .40 - .43
Bees, crude, African, bgs lb. .61 - .62
Brazilian, bgs. lb. .70 - .71
Central American, bgs lb. .66 - .68
Chilean, bgs. lb. .70 - .71
refd., USP, bleached, white bricks lb. .72 - .75
slabs lb. .71 - .74
yellow, bricks lb. .64 - .65
slabs lb. .63 - .64
Candelilla, crude, bgs lb. .63 - .65
refd., bgs lb. .66 - .69
Powdered candelilla, 20 mesh, 7c. per lb. higher, 80 mesh, 7c.; 100-200 mesh, 8c.
Carnauba, chalky, bgs., ton lots lb. .63 Nom.
North country No. 2, bgs., ton lots lb. .84 Nom.
No. 3, Ceara, crude, bgs., ton lots lb. .66 - .69
refd., pure, bgs., ton lots lb. .76 - .78
tech., bgs., ton lots lb. .70 - .72
Parnahyba, crude, bgs., ton lots lb. .71 - .73
yellow, No. 1 Ceara, bgs., ton lots lb. 1.02 - 1.04
Parnahyba, bgs., ton lots. lb. 1.05 - 1.07

Powdered carnauba wax price differentials same as powdered candelilla.

Japan, bgs. lb. .46 - .47
Microcrystalline, 170°-175° F., m.p., ASTM, penetration 15-20, amber, ctns., 20,000 lbs., group 3, works lb. .13 - .14
smaller lots, same basis. lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
smaller lots, same basis. lb. .12½- .13½
white, ctns., 20,000 lbs., same basis lb. .24 - .25
smaller lots, same basis. lb. .25 - .26
180°-185° F.m.p., ASTM, penetration, 7-11; amber, ctns., 20,000-lb. lots, same basis. lb. .16 - —
smaller lots, same basis. lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
smaller lots, same basis. lb. .15½- —
white, ctns., 20,000 lbs., same basis lb. .27 - —
smaller lots, same basis. lb. .28 - —
190°-195° F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis lb. .20 - —
smaller lots, same basis. lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
smaller lots, same basis. lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
smaller lots, same basis. lb. .34½- —



bull's-eye for quality

This huge calciner represents just one step in the TITANOX quality story. In this mammoth rotary kiln, titanium hydrate is converted to titanium dioxide. Here are developed, through careful heat treatment, the unique optical properties of TITANOX pigments—unsurpassed whitening, brightening and opacifying power.

Subsequent operations add to these optical properties such desirable qualities as ease of dispersion and freedom from coarse particles.

From the full lines of "pure" and composite TITANOX white pigments, you can select one or a combination to fit any of your pigmentation needs. Your TITANOX representative and our Technical Service Department are always ready to help you make the right choice. Titanium Pigment Corporation, 111 Broadway, New York 6, N. Y.; Atlanta 2; Boston 6; Chicago 3; Cleveland 15; Los Angeles 22; Philadelphia 3; Pittsburgh 12; Portland 9, Ore.; San Francisco 7. In Canada: Canadian Titanium Pigments Limited, Montreal 2; Toronto 1.

® TITANOX
the brightest name in pigments

2816-A TITANIUM PIGMENT CORPORATION
Subsidiary of NATIONAL LEAD COMPANY

Wax, montan, dom., refd., bgs	lb.	.30	.32
imp., crude, Bohemian, bgs	lb.	.13½	.14
German, bgs	lb.	.23	Nom.
Ouricury, refd., bgs	lb.	.93	1.03
Paraffin (see P).			
Spermaceti, blocks, cs.	lb.	.25½	.31
cakes, cs	lb.	26½	32
Sugar cane, dom., refd., slabs, works	lb.	.65	.75
spot	lb.	.67½	72¼
White lead (see Lead, white).			
White pine bark, rossed, bls	lb.	.18	.19
White precipitate, USP, powd., dms.	lb.	6.55	—
Whiting (see Calcium carbonate).			
Wild cherry bark, thin, nat., bls.	lb.	.18	.19
rossed, bls	lb.	.19	.22
Ginger (see Snake root, Canada).			
Witch hazel bark, bls	lb.	.16	.17
leaves, bls	lb.	.20	.21
Wollastonite, fine, bgs., c.l., works.	ton.	39.50	—
l.c.l., ex whse	ton.	56.00	—
medium, bgs., c.l., works	ton.	27.00	—
l.c.l., ex whse	ton.	44.00	—
Woolfat, crude (see Degras).			
USP (see Lanolin).			
Wormseed, American, bgs	lb.	.20	.25
Levant, bgs	lb.	4.25	4.50

X

Xylene (see Xylol).			
Xylenol, cryst., 58°-60°C., m.p., dms., l.c.l., works	lb.	.40	—
56°-58°C., dms., l.c.l., works, frt. equald	lb.	.30	—
45°-47°C., dms., c.l., same basis.	lb.	.212	—
l.c.l., same basis	lb.	.215	—
tanks, same basis	lb.	.199	—
Fractions, over 7°C, b.r., except meta, dms., c.l., same basis	gal.	.90	—
l.c.l., same basis	gal.	.99	—
tanks, same basis	gal.	.85	—
meta fraction, over 7°C. b.r., dms., c.l., same basis	gal.	1.01	—
l.c.l., same basis	gal.	1.04	—
tanks, same basis	gal.	.90	—
Xylidines, mixed, dms., c.l., truckload, works	lb.	.39	—
l.c.l., same basis	lb.	.40	—
tanks, same basis	lb.	.38	—
Xylol, coaltar, indust., tanks, works, Bethlehem, Pa	gal.	.34	—
Birmingham district	gal.	.32	—
Chicago district	gal.	.35	—
Cleveland district	gal.	.35	—
Geneva, Utah	gal.	.27	—
Johnstown, Pa.	gal.	.33	—
Lackawanna, N. Y.	gal.	.35	—
Lone Star, Tex.	gal.	.33	—
Lorain, Ohio	gal.	.33	—
Minnequa, Colo.	gal.	.34	—
Philadelphia district	gal.	.34	—
Pittsburgh district	gal.	.32	—
Sparrows Point, Md.	gal.	.34	—
Terre Haute, Ind.	gal.	.35	—
Youngstown, O	gal.	.32½	—
petroleum, indust., tanks, works:— Bayonne, N. J.	gal.	.34	—
Baytown, Tex.	gal.	.33	—
Chicago, Ill.	gal.	.35	—
Houston, Tex.	gal.	.35	—
Philadelphia, Pa.	gal.	.34	—
Providence, R. I.	gal.	.35	—
Wood River, Ill.	gal.	.35	—

Y

Yara yara, cns	lb.	2.15	2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms	lb.	.47	—
90 Int'l B units per gram, 100-lb. dms	lb.	.52	—
200 Int'l B units per gram, 100-lb. dms	lb.	.56	—
300 Int'l B units per gram, 100-lb dms	lb.	.60	—
Yellow, barium chromate, CP, bbls., dlvd. N. l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul	lb.	.35	—
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below.			
Benzidine AAA, bbls., dlvd	lb.	2.00	—
AAOT, bbls	lb.	2.25	—
Lightfast, bbls.	lb.	3.15	—
Cadmium, CP, all shades, bbls., frt. alld, E. of Rockies	lb.	2.85	—
lithopone, all shades, bbls., frt. alld., E. of Rockies	lb	1.15	—
Cadmium yellows, Los Angeles and San Francisco, ex whse., 1c. per lb. higher.			
Chrome, CP, bbls., dlvd. N. Tenn., and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island	lb.	.32	—
Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.			
Hansa, 10 G, bbls., same basis as yellow, chrome	lb.	2.15	—
G pigment, bbls	lb.	1.91	—
Iron oxide, natural, French type, bgs., c.l., works	lb.	.05¼	—
Peruvian type, bgs., l.c.l.	lb.	.038	—
pure, ogs., c.l., works	lb.	.10½	—
l.c.l., works	lb.	.10¾	—
Mercury oxide, bbls., 1,000-lb. lots.	lb.	5.58	—
smaller lots	lb.	5.60	—
Ocher (see Yellow, iron oxide, natural).			
Zinc (chromate), bbls., dlvd	lb.	.26	—
basic, dlvd	lb.	.31	—
Yerba santa leaves, bls	lb.	.40	.42
Yohimbine hydrochloride, bots, tin.	oz.	4.50	—

Z

Zein, bgs., 30,000-lb. lots, works	lb.	.38	—
1,000 to 30,000-lb lots, works	lb.	.40	—
smaller lots, works	lb.	.43	—
Zinc acetate, tech., bbls., dms., works	lb.	.27	—
NF VIII, dms	lb.	.53	—
Borate, bgs., c.l., dlvd. E	lb.	.192	—
l.c.l. dlvd. E	lb.	.202	—
Chloride, NF, gran., dms	lb.	.42	—
precipitated, powd., dms	lb.	.26	—
soln., 50%, dms., c.l., works.	100 lbs.	5.50	—
l.c.l., works	100 lbs.	6.10	—
tanks, works	100 lbs.	4.85	—
Chloride, tech., fused, dms., c.l., works	100 lbs.	10.10	—
l.c.l., works, dms	100 lbs.	10.60	—
gran., fib., dms., c.l., works	100 lbs.	10.85	—
l.c.l., works	100 lbs.	11.35	—
Zinc, chromate (see Yellow, zinc).			
Cyanide, kgs., 1,000-lb. lots or more, works	lb.	.523	—
smaller lots, works	lb.	.543	—
Dust, pigment, bbls., c.l., works	lb.	.14¾	—
l.c.l., works	lb.	.15¾	—
Fluoride bbls., works	lb.	.49	.50
Hydrosulfiite, dms., c.l., frt. alld.	lb.	.21½	—
l.c.l., frt. alld	lb.	.22	.37½
Metal, prime western slabs, E. St. Louis	lb.	.11½	—
Naphthenate, liq., 8% Zn., dms., frt. alld	lb.	.24½	—
10% Zn, dms, frt. alld	lb.	.30	—
Oxide, pigment, American process, lead-free, ogs., c.l., dlvd	lb.	.13½	—
l.c.l., dlvd	lb.	.14½	—
leaded 35%, bgs., c.l., milled, bgs., c.l., works	lb.	.04½	—
l.c.l., dlvd	lb.	.15¼	—
50%, bgs., c.l., dlvd	lb.	.14½	—
l.c.l., dlvd	lb.	.15¾	—
French process, cml., green seal, bgs., c.l., dlvd	lb.	.15¼	—
l.c.l., dlvd	lb	.16¼	—
red seal, bgs., c.l., dlvd	lb	.14¾	—
l.c.l., dlvd	lb.	.15¾	—
white seal, bgs., c.l., dlvd.	lb.	.15¾	—
USP, ctns., c.l., dlvd	lb.	.16¾	—
l.c.l., dlvd	lb.	.17¾	—
Zinc oxide Pac. coast prices 1c. higher.			
Phenolsulfonate, NF, gran., dms.	lb.	.39	—
powd., dms	lb.	.42	.49
Zinc, resinate, precip., 7.2-7.6% Zn, dms., frt. alld	lb.	.29	—
Silicofluoride, bbls., works	lb.	.12	.13
Stearate, tech., USP, ctns., c.l.	lb.	.37	—
l.c.l.	lb.	.38	.42
Sulfate cryst., 22% Zn, bgs., c.l., works, frt. alld	100 lbs.	8.05	—
l.c.l., same basis	100 lbs.	8.60	—
flake, 25½%, Zn, bgs., c.l., works,	100 lbs.	7.40	—
36% Zn, bgs., c.l., frt. alld.	100 lbs.	7.90	8.05
l.c.l., same basis.	100 lbs.	8.65	8.80
powd., monohydrate, bgs., c.l., dlvd. E	100 lbs.	7.90	—
c.l., dlvd. E	100 lbs	8.65	—
Zinc sulfate in bbls. 40c. higher.			
USP, gran, dms	lb	.26	—
Sulfide, pure, bgs., c.l., dlvd	lb.	.2530	—
Undecylenate, dms.	lb	2.25	2.50
Yellow (see Yellow, zinc).			
Zinc-ammonium chloride, ogs., c.l., works	100 lbs.	9.65	—
bbls., c.l., works	100 lbs.	10.25	—
l.c.l., bbls., works	100 lbs.	10.75	—
Zinc-formaldehyde sulfoxylate, basic, dms., c.l	lb.	.25½	—
l.c.l.	lb.	.26	.41½
normal, dms, l.c.l. works	lb.	.52	—
Zircon (G), gran., bgs., c.l., works.	lb.	.03½	—
5 tons to c.l., works	lb.	.03½	—
1 ton to 9,999-lb lots, works.	lb.	.04	—
smaller lots, works	lb.	.06½	—

Wax, Montan—Zirconium Oxychloride

Zircon (G), milled, bgs., c.l., works	lb.	.04½	—
5 tons to c.l., works	lb.	.04⅝	—
1 ton to 9,999 lb lots, works.	lb.	.04⅝	—
500 to 1,999 lb lots, works.	lb.	.07½	—
Zircon (G) in barrels, 1c. higher.			
Zirconium acetate, 15% soln. ZrO_2, c.l., 30,000 lbs minimum, works	lb.	.23	—
Hydride, ens., works	lb.	7.00	8.45
Nitrate, dms., ex whse	lb.	4.50	7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works	lb.	1.50	—
lump, electric-fused, bgs., c.l., works	lb.	.44	—
5-ton lots, works	lb.	.44½	—
1 ton to 9,999-lb. lots, lbs., works	lb.	.45	—
CP, white, grd., bbls., or bgs., works	lb.	1.50	—
lump, electric fused, bags, 500 to 1,999-lb. lots, works	lb.	.45½	—
smaller lots, works.	lb.	.48	—
milled, electric-fused, bgs., c.l., works	lb.	.59	—
5-ton lots, works	lb.	.59½	—
1 ton to 9,999-lb lots, works	lb.	.60	—
500 to 1,999-lb. lots, works	lb.	.60¼	—
smaller lots, works.	lb.	.63	—
Oxychloride, cryst., ctns., 5-ton lots, works	lb.	.35½	—

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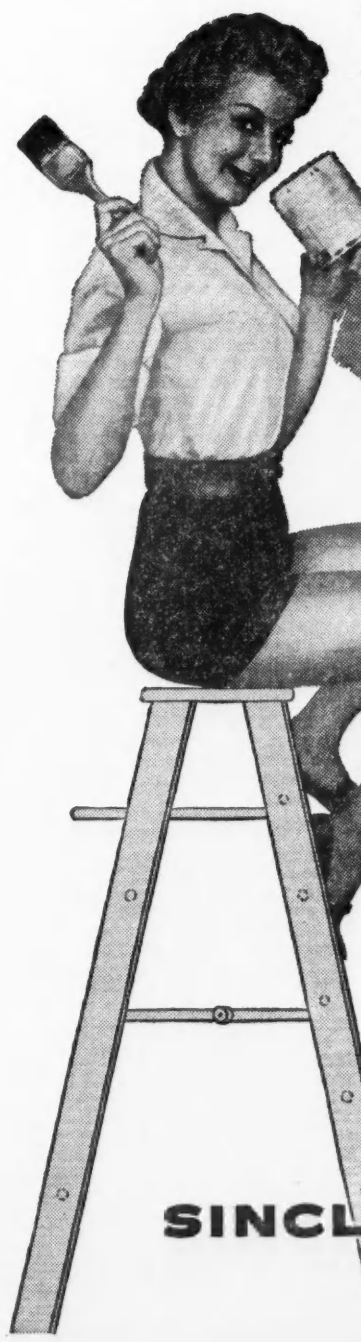

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Meeting Educational Needs

It is somewhat to be feared that politics, rather than sound thinking and good sense, will motivate the action of the congress with reference to the remedying of the educational needs of the United States. It is quite evident that the President's belief that the educational needs will best be met if their remedying is fundamentally retained as the responsibility of the community does not sit well with those who largely owe their being in congress to their catering to the proponents of federal paternalism in everything.

Business must take a realistic stand with relation to the problems of educational needs. Business will have to pay for the remedying of those needs whatever may be the "school of medicine" whose remedies are applied. And business knows that in everything the farther financial aid must flow from source to use the greater its cost. Therefore, business should find it quite easy to improve the President's emergency objective, "to widen the accepted channels of financing school construction and to increase materially the flow of private lending through them—without interference with the responsibility of state and local school systems."

The educational needs problems are not yet adequately understood. They are being surveyed, and there is more than a little reason to believe that the result of that study, if it be properly conducted, will be in large measure the same as that of a similar study made in the State of New York several years ago, which found that "localities possessed the resources to finance their basic and immediate school building needs as well as other capital outlay requirements."

It must be admitted that there are localities in this multifaceted nation which do not have adequate resources for such financing in line with the trends of today. In that connection, it is wise to consider the most significant statement in the President's message on educational needs:—"Good teaching and good teachers made even the one-room crossroads schools of the nineteenth century a rich source of the knowledge and enthusiasm and patriotism, joined with spiritual wisdom, that mark a vigorously dynamic people. Today, the professional quality of American teaching is better than ever. But, too many teachers are underpaid and overworked and, in consequence, too few young men and women join their ranks. Here is a shortage less obvious, but ultimately more dangerous, than the classroom shortage." Small school buildings, more widely dispersed throughout a community could cost less and do more than the imposing structures which are now so popular and so unfitted to the transportation facilities of most localities and to the vagaries of today's population shifts.

Business would do well to conduct its own survey of its own educational needs on a realistic basis. There is more need for contributions for local public school personnel than there is for the popular establishment of scholarships in higher education. The real need is not for more doctorated graduates in this and that but for better ones and for more fundamentally trained young persons who can take over about one-half of what is now being done by nominal scientists and technologists in a civilian force which, like the fabled Latin-American army of the early days of the current century, has a general for each score of actual fighting men. There are many places where the ABC's and the three R's are more useful than PhD's and ScD's. But, whatever the need, its remedying can best be done at home. That, quite obviously, requires that business must see to its doing.

United Status of Labor

In terms of domestic commercial economy, the most important event recently in the news is the merger of the two largest national labor organizations. One of the most significant contributions to that importance is the fact that nobody knows just what the merger means or can guess what may eventuate from it. Politicians are reviving the bogeyman of a labor party in the national field—not all labor leaders are agreed in that respect in spite of an apparently official denial of any such objective. Federal lawmakers are already displaying perturbation over what may come in the way of a demand that the labor business be deprived of its exemption from the laws against monopolies. As some see it, it is anybody's guess whether the "independent" miners' organization will move along that line.

It is likely that the ratification of the merger by the two organizations as a whole will be far from a smooth-going procedure. It is evident that some in various upper echelons on the CIO side are not pleased with the possibility that they may be pushed down several pegs. The belief that AFL leaders deal with—even sell out to—big business, which was one of the reasons for the original split, still persists among leaders of CIO groups. That is one reason why some observers feel that the "honeymoon" of the new unity may not last very long. Others believe that another "divorce" will not come soon because the various groups will have full opportunity to "blow their tops" and have it over with one another when differences arise. It is recognized that something could come along to put that safety valve out of commission—and a blowup would result.

There is a growing belief that the unification of the major labor organizations will make for better conditions in the handling of management-labor relations. That belief derives from a feeling that the eliminating, or at least minimizing, of jurisdictional controversies will help in that direction; also that the unification would instill and promote a better recognition of labor's responsibilities. On both sides there is a thought that very much will depend on the kind of leadership developed under the unity. Expectations in that direction are not universally optimistic.

In view of the criticism of the Eisenhower administration by labor leaders, especially in AFL circles, and the lavish praise of the late President Roosevelt in AFL official publications, there is more than a little significance in the statement by the Secretary of Labor two days after the merger was voted that "the Republican party will reject the spokesman of reaction and special group interests and continue to follow President Eisenhower's leadership in promoting the welfare of working people." Such things as a higher wage minimum and amendment of the Taft-Hartley act were cited. The political aspects of the new labor development are not going to be less interesting and important than are the industrial.

Industry and National Security

"Today wars are not fought by armies, navies, or air forces. Wars are fought by nations. Both halves of the civilian-military team must be fully aware of this." That statement by the commandant of the Industrial College of the Armed Forces will promote various mental reactions on the part of industrial leaders who have recollections of the part which came variously to them during World War II. For that reason they will be interested in the purpose of the college, through the cooperatively sponsored National Resources Conferences, "to foster a better understanding of the many interrelated problems associated with national security, a stronger appreciation of the inseparable nature of the civilian-military team, and a clear recognition of the responsibilities and capabilities of each half of the team." Hence it is that they should do their part in full to make the conferences in their respective parts of the country all that they should be on the civilian side.

The National Resources Conferences are concerned with the human resources of the nation as well as the material resources. Aside from what are commonly regarded as materials, they also have to do with physical resources, such as power, transportation, and communications. The current series of National Resources Conferences has been going on since last September. It will comprise sixteen ten-day conferences when it has been completed, June 17. Each conference is held in a different city, no two in the same state. Half of the current series of conferences are yet to be held. They are scheduled for Austin, Tex.; Kansas City, Mo.; New York; Philadelphia; Spokane; Tampa, Fla.; Toledo, Ohio, and Worcester, Mass.

Whatever he may think are today's "broad aspects of world political, economic, and power patterns" or the "economic ability of nations and blocs of nations to wage war, 'hot' or 'cold,' either with or against the United States," every industrial leader should make a special effort to be there if a conference is being held in his state. Particulars can be got by communicating with "Commandant, Industrial College of the Armed Forces, Fort Leslie J. McNair, Washington 25, D. C.; attention: CRB." It will be well to include a request for particulars regarding the inadequately known Industrial College of the Armed Forces.

Washington Talks It Over

By Ralph L. Cherry
Chief, OPD Washington Bureau

A controversy appears to be brewing between the Department of Justice and the Department of Commerce over the question of trade association representatives serving on the industry advisory committees set up by the Business and Defense Services Administration. Secretary Weeks wants to include them. Assistant Attorney General Barnes is against it.

The matter came to light during recent hearings before the Celler monopoly subcommittee in the house. Mr. Celler made reference to a recent letter of Secretary Weeks praising the cooperation of trade association executives in the forty industry conferences that have been held by the department in the last two years. Mr. Weeks also affirmed "the full and equal eligibility of both company and trade association executives" in all department government-industry meetings.

When asked for his views, assistant Attorney General Barnes agreed with Mr. Celler that there was "great danger" that Mr. Weeks' move might encourage monopolies. He added that "we certainly are not going to close our eyes at something that occurs there."

Government's Overseas Operations

The one-man crusade of Sen. Allen Ellender of Louisiana against waste in the government's overseas operations and programs has borne some fruit, but it has been a far cry from the bumper crop he had hoped for. On the basis of a tour last year through thirty-seven countries which have been receiving benefits in one form or another from Uncle Sam, the senator says succinctly:—"There's still room for a lot of improvement."

In the first place, Sen. Ellender says, there are too many people in the US diplomatic field. He still think that the United States must "keep up with the Jones" and it's about time the State department implemented a policy of frugality and reasonableness in its various operations. But what really gives the senator a slow burn is the twisting of authorizations for technical assistance programs into economic assistance programs of questionable value.

For example, he noted, the scheme to increase fish production by providing more ponds in Egypt seems to be somewhat unrealistic even though the key to victory in the cold war in some areas is that of increasing food supplies. He also recommended immediate termination of such obvious capital-investment schemes as construction of fertilizer plants, hospital and school building programs and aerial photography surveys.

Quality of US Farm Products

In a country such as ours where the public has become accustomed to quality products, it is surprising to find that the same view isn't shared in world markets, particularly in the agricultural field. Maybe it is because world agricultural stocks are at a peak and buyers can afford to be more choosy, but the Department of Agriculture finds that "poor quality" is one of the reasons for lagging US farm exports. Some examples:—

Japan — Food manufacturers are complaining that, to make US soybeans comparable with Manchurian grades, they have to handpick seeds and foreign materials before the beans can be processed. Cause of the difficulty is that US grading standards apply to use of soybeans for crushing. These standards are inadequate when soybeans are used as food.

Venezuela — A leading egg importer states that US eggs have to be priced at less than $12 a case to be a better buy than Canadian eggs priced at $13 a case. One important reason:—The fiber boxes, especially when old, do not hold up under the numerous handlings from the US farm to the consumer in Venezuela; they rip at the handle slots, causing eggs to fall out and break.

Colombia—A miller says that he could not afford to pay duty, tax, and freight on the dirt and foreign material permitted under the US grade of No. 2 hard winter wheat, when he could buy a better product at a lower price elsewhere.

Dairy-Oleo Industry Relations

In the search for new outlets for dairy products, the dairy industry of this country could well take a leaf from the British book and cooperate instead of fight the oleomargarine industry. The British dairy people are finding that there is a market for considerable quantities of its cream in the making of oleomargarine when the public is informed of this fact.

Latest reports from the UK disclose that brands of oleomargarine now being offered to the market contain as much as 25 percent cream butter. With the advertising campaign focused on its butter content, this blended product has become an immediate commercial success despite the fact that it sells for several cents per pound above the standard margarine.

It would not be possible to duplicate this in the United States, however, because of the restrictions on advertising which the dairy bloc insisted upon placing in the oleomargarine legislation of several years ago. The advertisements of the margarine producers can contain no reference to dairy products because it was feared that someone would be misled into believing he was purchasing butter.

From the experience in the US it would appear that the dairy industry in this country could profit by a revision of its thinking on margarine advertising restrictions.

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Heavy Chemicals

The current strike at the plant of a major alkali producer was said to have had little or no effect on trade last week, particularly in terms of supply. Due to the fact that large volume consumers usually contract for material with a number of suppliers, it was felt that when the business of the striking producer was spread between those remaining in operation, no one manufacturer would be under pressure to supply for prompt needs. Soda ash, caustic soda, and chlorine were all said to be plentiful.

Saltcake supplies continued tight during the week, with no respite for the situation foreseen by either producers or consumers. One manufacturer still held the line at $24 per ton, although the rest of the industry was practically uniform in asking $28 per ton for crude saltcake. Hydrochloric acid stocks remained lengthy, and producers in some areas had to watch closely lest production exceed storage facilities and consuming demand. By-product hydrochloric output was up due to increased chlorination of hydrocarbons.

Copper oxychloride was advanced last week reflecting the current rise in copper. Copper sulfate demand was brisk for nearly all end uses, and supplies for both sulfate and metal remained tight. Spot prices for metal on the London market were well ahead of primary prices domestically, and it was generally felt that another increase was due for copper and its salts.

The American Paper and Pulp Association reported production for the week ended February 12 as 95.7 percent of theoretical capacity, as compared with the revised figure of 94.9 percent for the previous week, 94.8 percent for the corresponding week of last year.

Acid, Boric—Contract listings prevailed without change. Consuming interest was moderately active for most end uses during the week. Although supplies were available for early shipment, most sources were of the opinion that material was not overly plentiful.

Acid, Chromic—The market remained about steady. Demand was well sustained at current prices. Stocks were plentiful.

Acid, Hydrochloric—Demand varied as to producing areas. Supplies were lengthy, particularly in those regions where consuming industries were not as fully developed as production capacity. There were no price changes reported during the week. Some sources felt that buying interest had increased in the midwest, although it was pointed out that there was no pressure on supplies of acid at this time, nor were shortages expected.

Output of acid remained heavy due in large part to the currently high rate of production of chlorinated hydrocarbons. Polyvinyl chloride production continued at a good pace, as did manufacture of chlorinated insecticides. Mannheim and synthetic operations, although reduced, also accounted for sizable amounts.

Acid, Hydrofluoric—The market showed little or no change during the week. Prices held unchanged. Consumers ordered for prompt shipment from ample supplies.

Acid, Hydrofluosilicic—Thirty percent acid remained listed at 6c. per pound, drums, f.o.b. works. Increased interest was shown for water fluoridation, particularly in view of the coming water treatment season. Supplies were readily available.

Acid, Nitric—Good demand was noted all through the end use pattern. The currently high rate of steel production was a decisive factor in keeping supplies moving. Contract quotations were without change. Stocks were plentiful.

Acid, Sulfuric—Steel production was estimated at 88.2 percent of capacity last week. As a result, demand for sulfuric from that direction continued heavy. The petroleum industry maintained good call for acid both in refining and in sulfonation processes. Synthetic detergents and other chemical end uses accounted for heavy volumes as well. Prices continued steady and unchanged. Present output and reserves were such that consumers could get what they needed without delay.

Aluminum Sulfate—Pulp and paper output continued high, and as a result, large quantities were withdrawn on contract for paper sizing. Use in water treatment was expected to improve during the next few months. Prices were unrevised, with supplies ample.

Ammonium Bicarbonate—Demand from the baking industry, particularly for cracker baking, kept this market active during the week. Supplies were plentiful at unchanged prices.

Ammonium Chloride—Buying interest for white granular material remained sluggish. Sal ammoniac was said to be moving relatively well to the dry battery industry. However, it was expected that with the coming of daylight saving time, demand for dry batteries would fall off seasonally, and as a result sal ammoniac would move more slowly.

Bromine—Buying interest was steady, with no noteworthy changes taking place during the week. Prices were unchanged. Material was available for prompt shipment.

Calcium Chloride—Demand continued very active for highway ice control due to the prevalence of cold weather in many areas of the country. Interest was also well sustained for use in cold weather concrete. Some producers reported that they were having difficulty keeping up on shipments, owing primarily to heavy reordering. Quotations were firm and unchanged.

Chlorine—Demand was good for organic chlorination. The pulp and paper industry was also active in the market. Supplies were judged plentiful to lengthy, depending on producer's views. Prices were unchanged.

Copper Oxychloride—Prices were increased last week in order to overcome increases in processing costs, as well as the recent increase in copper metal. New quotations ranged from 44c. to 44½c. per pound, depending on quantity.

Copper Sulfate—Supplies remained tight, reflecting the position of copper metal. Consuming demand was more active during the week, as agricultural interest picked up in the south, and industrial uses showed more life in mining areas of the west and industrial consuming industries in the east. Prices were firm and unchanged, hinging on copper metal prices.

Ferric Sulfate—The market picture showed little change during the week. Prices held unchanged. Supplies were plentiful and available for prompt shipment. Demand centered on immediate needs.

Magnesium Sulfate—Contract quotations were steady and unrevised. Demand from the paper industry for sizing was moderate. Textile industry inquiry was active, chiefly for moderate withdrawals against contract for prompt use. Supplies were plentiful.

Potash, Caustic—Demand held up well for liquor. Prices were unchanged. Supplies were readily available.

Potassium Carbonate—Buying interest was well sustained by the glass industry as demand for specialty uses, particularly in television tube manufacture, held up well. Supplies were available at unchanged listings.

Soda Ash—The strike at the plant of a major producer was not expected to have a shortening effect on supply, due to the fact that large volume consumers usually split contracts several ways among suppliers. It was felt that even should the labor dispute be of some duration, supplies would not be placed under heavy pressure unless unforeseen needs arose.

Soda, Caustic—The market showed little or no change during the week. The rayon industry maintained good call due to presently good rates of output. Solid moved in moderate volume for packaging requirements to suppliers of home cleaning compounds. The current strike at the works of one major alkali producer had little or no effect on the supply position last week, it was said.

Sodium Sulfate—Saltcake was maintained at $24 per ton by at least one producer last week. The industry in looking ahead felt that production and consumption of sodium sulfates during the coming year would increase. Saltcake, cur-

For Late Market Developments, See Page 4

Price Trends

Advanced

Copper oxychloride, 4c. per lb.

Reduced

Platinum, $4 per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Feb. 19, 1954
98.35	98.45	98.44	98.58

(For Current Prices see Page 9)

rently in a tight position due in part to increased requirements from the kraft paper industry and in part to low supplies of byproduct cake, was expected to continue tight into 1955. It was also felt that saltcake produced by the Mannheim furnace process would be below previous annual totals. Increase in supply from natural sources was expected to more than balance the lower hydrochloric acid coproduct output, due in large part to development of new facilities in the west.

Sulfur—The following figures, in long tons, report production, mine or plant shipments, apparent sales, and producers stocks of native and recovered elemental sulfur of a purity of 97 percent or greater in the United States, as compiled by the Bureau of Mines.

	November 1954	December 1954	December 1953
Native sulfur (Frasch) production	467.098	477.909	437.499
Mine or plant shipments	507.086	455.744	421.014
Apparent sales	*497.342	*459.507	*438.296
Producers' stocks	†3.209.618	†3.228.020	†3,022,486
Recovered sulfur production	29.400	32.200	28.000
Mine or plant shipments	22.887	25.5?2	26,258
Apparent sales	*19.732	*27.235	*27.793
Producers' stocks	†104,151	†109.066	†107.344

* Calculated from production and changes in stocks during the period.
† Producers' stocks at mines or plants, in transit, and in warehouse at end of period.

In addition, the bureau reports that total recovered sulfur production in 1954 amounted to 357,400 long tons, as compared with 337,099 long tons in 1953. Native sulfur output in 1954 totaled 5,515,543 long tons as compared with 5,155,342 long tons in 1953. Mine or plant shipments of native sulfur in 1954 totaled 5,338,048 long tons, as compared with 5 224,234 long tons in 1953. Recovered sulfur mine or plant shipments in 1954 totaled 352,368 long tons, as compared with 321,062 long tons in 1953.

Tin Chemicals—Oxide held at 91½c. to 92½c. per pound, as to quantity. Potassium stannate remained at 67c. to 73.6c. per pound, sodium stannate, 53½c. to 58.9c. per pound; stannic chloride, 74.8c. to 75.8c. per pound; stannous chloride, anhydrous, 79.9c. to 1.068c. per pound; hydrous crystals, 75½c. to 76½c. per pound; sulfate, 91.8c. to 93.8c. per pound.

Nonferrous Metals

Aluminum—Pig and ingot prices were unchanged and steady last week. Demand continued active due to development of new applications. Producers anticipated no shortage in stocks, despite the current boom period experienced in this market.

Copper—Supplies remained tight on spot and abroad. The Northern Rhodesian copper strike continued without letup, resulting in an increasing tonnage of copper being held out of the world market. Primary copper was quoted on spot in this country at 33c. per pound, but producers felt that the prices could go higher at any time. Due to the copper shortage, refiners were paying as high as 32c. per pound for No. 2 scrap last week. The London market continued far ahead of the American market, with spot copper quoted there at 43.12c. per pound.

The Copper Institute reports that production of crude copper in January amounted to 96,113 tons, as compared to 97,733 tons produced in December, and 84,546 tons produced in January, 1954. Refined production in January totaled 123,840 tons, as compared to 133,523 tons in December, and 111,869 tons produced in the preceding January. Refined stocks at the end of January decreased by 1,126 tons under stocks reported in producers' hands at the end of December.

In addition, it is reported that total crude copper output for 1954 amounted to 966,193 tons, as compared with the total of 1,067,793 tons reached in 1953. Refined production in 1954 amounted to 1,311,031 tons, as compared with 1,395,003 tons in 1953. While refined stocks showed an overall increase of 30,335 tons at the end of 1953, supplies dwindled by 40,604 tons by the end of 1954 to a total of 47,108 tons.

Mercury—Offerings were closely held. Demand was spotty. Material continued quoted at $322 to $324 per 76 pound flask, spot.

Platinum—The market was weaker. Sales were reported at from $78 to $80 per pound, with some material said to have been sold at lower prices.

Tin—The market fluctuated narrowly last week, at around 90¾c. per pound. Trading was generally dull. Platers reported a continuing good volume of business.

Davison Issues Revised Data Sheets

Davison Chemical Company, a division of W. R. Grace & Co., has issued revised product data sheets on powdered and pelleted vanadia oxidation catalysts and on indicating silica gel for protective packaging. They are obtainable from the division's technical service department at Baltimore 3, Md.

Columbia-Southern Appoints Ebert as Purchasing Agent

Quentin F. Ebert has been appointed director of purchases for Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Mr. Ebert, who has been with Columbia-Southern since 1942, will coordinate and formulate purchasing policies, trade relations, and related administrative operations. He also will continue as special assistant to the general superintendent, to which post he was appointed in 1951.

Hart Has New Sequestrant

Hart Products Corporation, New York, has developed a new sequestering agent, "Kalex G," which is said to be specific for such heavy metal ions as ferric iron, nickel, cobalt, copper, zinc and manganese. This sequestrant is said to display the highest sequestering power for heavy metal ions of any chelating agent examined. According to Hart, "Kalex G" is not recommended for the sequestration of alkaline earth ions.

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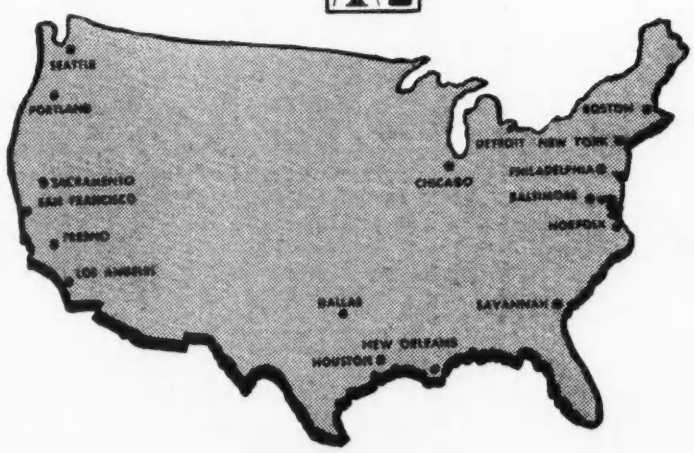

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ACS Parley in Brooklyn Slated to Be Held Friday

New chemical tools for research on heredity, drugs used in treating mental disorders, and studies of New York's air pollution problems are three of the subjects to be discussed in 111 papers at the annual scientific conference of the American Chemical Society's Metropolitan-Long Island subsection on Friday, February 25.

More than 600 chemists and chemical engineers will convene for the all-day meeting in the Granada hotel, Brooklyn. Simultaneous sessions will be held from 9:30 a.m. to 5 p.m. in nine major fields of chemical science and technology.

Prof. I. W. Kolthoff, head of the division of analytical chemistry at the University of Minnesota, will speak on "Induced Reactions," following an informal dinner at 6 o'clock. Development of the blood volume expander "Dextran," research with radioactive tracers, and the interaction of dyes and detergents are other topics on the program arranged by the conference committee, headed by Prof. Joseph Steigman of the Polytechnic Institute of Brooklyn.

A symposium on "Technical Services in the Chemical Industry" will be held by the chemical marketing and economics group, with John J. Glover of Jefferson Chemical Company, New York, as general chairman. There will also be morning and afternoon sessions on organic and physical chemistry. Morning sessions will are slated on analytical chemistry, biochemistry and chemical education, while in the afternoon there will be sessions on clinical chemistry, industrial chemistry and inorganic chemistry.

AIC New York Chapter To Hear Merck Official

Dr. Randolph T. Major, scientific vice-president of Merck & Co., will discuss "The Chemist in the Pharmaceutical and Medical Fields" at the February 24 dinner meeting of the New York chapter of the American Institute of Chemists. The dinner will be held at 6 p.m. in the New York Times dining room, 229 West 43rd street, New York. The meeting will start at 7:30 p.m. Both the dinner and the meeting are open to the public.

John Kotrady of Texas Company, chairman of the New York chapter, will preside at the meeting. He will conduct a question and answer period following Dr. Major's talk. The price of the dinner is $2.75. Reservations should be made by calling or writing Shepherd Stigman, of Foster D. Snell, Inc., 29 West 15th street, New York 11.

Chemical Additive Legislation

—Continued from page 3

adequate safeguards in the production and distribution of foods.

2. Every new substance proposed for use in foods must be adequately pretested by the manufacturer or user and this pretesting should be required by law.

3. The results of the experimentation in pretesting new substances proposed for use in foods should be reviewed and approved by the Food and Drug Administration before such substance is allowed in food to be sold to the public.

He emphasized that the legislation which he and Mr. Priest are sponsoring "initially places in the Food and Drug Administration the responsibility and authority to determine whether a proposed additive in considered safe in its intended use." The bill also sets forth criteria which must be considered by the FDA in arriving at its decision, he pointed out. They are:—

1. "The functional value of the proposed additive for its intended use; provided, however, that the secretary (of HEW) may not base his notice that a regulation will not be issued solely on the grounds that the applicant failed to show the functional of the proposed additive in its intended usage.

2. "The probable consumption of the new chemical additive and any food in or on which it is intended to be used as a component.

3. "The cumulative effect in the diet of man of the new chemical additive and, where relevant because of use in or on foods, any chemically or pharmacologically related substance or substances.

4. "Appropriate safety factors for transposing animal experimentation data to practical use in appraising the hazards to man."

Provision is made in the bill for public hearings in disputed cases where requested by the applicants with ultimate appeal to the courts. Provision is also made for consultation with a committee of scientists chosen by the National Academy of Sciences. The recommendations of such a committee can be requested by either the applicant or the FDA.

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Nuclear Reactor Contract Award Is Made by Battelle

A contract for the design, engineering, and construction of a nuclear reactor has been awarded by Battele Institute, Columbus, Ohio, to American Machine & Foundry Company, New York. One of the first in the country to be owned and operated by a private organization, the reactor will be a key component in a $1,500,000 atomic research center Battelle is building fifteen miles west of downtown Columbus.

The reactor will be designed to be of broad use in the study of problems of industry. It will be of the so-called "swimming-pool" type and will be modeled somewhat after the bulk shielding reactor at the Oak Ridge National Laboratory. Its primary function will be to provide an intense source of neutrons and atomic radiation for research uses. In this respect it will supplement a large cobalt-60 gamma radiation source now being installed by Battelle and reactor development and hot-cell laboratories planned by the institute in providing private industry with complete facilities for studies in the field of atomic energy.

Carbide Adds Service Group, Names Dr. Steele Manager

Dr. A. B. Steele has been appointed manager and C. P. McClelland has been appointed assistant manager of the newly-created technical service group for Carbide & Carbon Chemicals Company, New York, a division of Union Carbide & Carbon Corporation. The group will be responsible for rendering special technical assistance to Carbide's customers.

Dr. Steele joined Carbide at Mellon Institute in Pittsburgh, Pa., as a trainee in 1941. He was appointed senior fellow in 1950. His headquarters will be in the New York offices of the company. Mr. McClelland joined Carbide at Mellon Institute in 1936, also as a sales trainee. He was appointed a product manager in the fine chemicals division in 1944 and has been responsible for the market development of "Tergitol" surface-active agents, "Carbowax" polyethylene glycols, and "Cellosize" hydroxyethyl cellulose.

Michigan Chemical Group Announces Officers for 1955

The Chemical and Allied Industries Association of Michigan has elected Robert F. Watt, of Western Solvents & Chemicals Company, president and M. Lorne Morrison, of R. P. Scherer Corporation, vice-president. Also elected for the year 1955 were:—Treasurer, William F. Harlton, jr., Detroit Veterinary Supply Company; secretary, J. Glenn Hicks, Monsanto Chemical Company; executive committee, Clair J. Brissette, Parke, Davis & Co., Hugh D. Kitchen, Park Chemical Company, and M. R. Polley, Mallard, Inc.

Trade Briefs

Crown Chemical Corporation, Providence, R. I., has named John J. Valter technical sales representative with headquarters in Greenville, S. C.

Witco Chemical Company, New York, has published a new two-page technical service bulletin (W-2) on calcium carbonate.

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Cyanamid Makes Changes In Industrial Chemicals Unit

American Cyanamid Company, New York, has named F. W. Zipf manager of manufacturing in its industrial chemicals division. Succeeding Mr. Zipf as manager of the division's Warners, N. J., plant is P. M. Tompkins. H. P. Callahan has been named technical director of the manufacturing organization with headquarters at Linden, N. J. R. F. Warren has been appointed manager of sales service and statistics for the division, and D. F. Robinson has been named as his assistant.

W. R. Donaldson has been appointed assistant manager of Cyanamid's paper chemicals department. A. R. Skelton has been appointed district manager at Mobile, Ala., and R. S. Meade will serve in the same capacity at Charlotte, N. C. John Verdon has been appointed district manager at Kalamazoo, Mich. William Beauchief has been named a technical salesman in the eastern district of the southern region, and J. H. Reid a technical salesman in the southern region.

Daubert Names Three To Sales, Lab Positions

Daubert Chemical Company, Chicago, has appointed George M. Tiedeck technical sales engineer for the Detroit, Mich., area; H. L. Buckmaster chief chemist of the company's adhesives and sealers division, and L. W. Snyder as Mr. Buckmaster's assistant.

Mr. Tiedeck was formerly with Minnesota Mining & Manufacturing Company, St. Paul, Minn. Mr. Buckmaster was formerly with Montgomery Brothers, Inc., Philadelphia, and Mr. Snyder was formerly with Firestone Tire & Rubber Company, Akron, Ohio.

Durham Chemical Appoints

Durham Chemical Company, Los Angeles, has appointed Earle Stevens vice-president and general manager. Fred DeGraw, formerly with International Minerals & Chemical Corporation, Chicago, has been named sales manager of the southern California territory in place of Mr. Stevens.

N.Y. Textle Chemists to Meet Feb. 25 for Dyeing Panel Talk

A meeting of the New York section of the American Association of Textile Chemists and Colorists will be held February 25 in the Keystone room of the Statler hotel in New York.

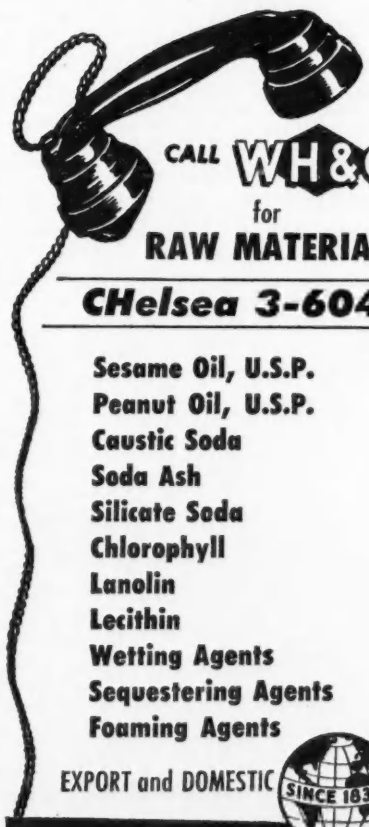
A panel discussion on dyeing and finishing has been scheduled, with the following panelists taking part:—Paul J. Choquette, coordinator of research at General Dyestuff Corporation; John A. Komninos, laboratory director at Waldrich Company; Harry Moore, plant superintendent for Fair Lawn Finishing Company; James H. Murray, chemist at Consolidated Bleaching Company; Dr. Fred Fordemwalt, assistant manager of dyes research for American Cyanamid Company, and Donald E. Marnon, director of application research at American Aniline Products, Inc., who will act as panel moderator. Dinner will be served at 7 p.m.

Enjay Sales Position to Snyder

Harry L. Snyder has been appointed sales representative of the alcohols and chemicals division of Enjay Company, New York. Mr. Snyder, who joined Enjay in 1954, brings to the company ten years experience in the chemical industry. Mr. Snyder will cover the metropolitan New York area.

Hooker Sales Supervisor

Herbert Heesch has been named general sales supervisor of Hooker Eltcrochemical Company, Niagara Falls, N. Y. Mr. Heesch was a salesman for Hooker from 1933 to 1937 when he joined the sales department of Heyden Chemical Corporation, New York. He returned to Hooker in 1947 as a sales representative in the New York-New Jersey metropolitan area, and became field sales supervisor for Hooker in 1952.



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Textile and Leather Chemicals

Higher prices were named for potato starch, tapioca flour for shipment from the Far East and Brazil, flake egg albumin and egg yolk last week.

Short covering and limited stocks of potato starch in Maine stiffened the market and resulted in a fractional price advance. Consuming inquiry also improved. The Idaho market was quotably unchanged and firm. Increased trading in replacements of tapioca flour from the Far East advanced prices fractionally. Contracts for heavy tonnage was reported for prompt and later shipment during the past fortnight. This was reflected in Brazilian flour and shipments also were stronger and higher. The price of good quality Brazilian flour was practically at the same level as Siamese.

Trend of egg derivative prices continued upward, with the stronger egg market. Flake egg albumin was boosted 12 cents to 18 cents per pound and yolk 10 cents to 12 cents per pound. Trading was reported light and confined to actual needs.

Tanners showed more interest in tanning material replacements but actual trading was restricted to moderate volume for nearby and later delivery. Myrobalans and valonia were steady at the recent advance. Other materials were unchanged and well held.

Consumption of fiber on woolen and worsted systems in December was 4 percent below November, but 18 percent above December last year, according to the Census Bureau. The weekly average raw wool consumption in December totaled 6,902,000,000 pounds (scoured basis), 2 percent below November and 10 percent above December last year. Consumption of carpet class wool was practically the same as in November, but was 7 percent higher than in December, 1953. Consumption of apparel class wool was 3 percent less than November, but 12 percent higher than December, 1953.

Chemicals

Bichromates—Withdrawals against current contracts continued quite active. All grades were unchanged and steady. Demand for spot stocks was reported moderate.

Sodium Hydrosulfite—Business was restricted to prompt needs. Quotations were maintained at former levels.

Sulfonated Oils—Lower cost of tallow was not reflected in sulfonated grades. Consumers continued to limit purchases to immediate delivery.

Sizing Materials

Corn Starch—Trading continued active for prompt delivery. Market was quotably unchanged and steady. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots, and powder, $7.29 per 100 pounds, New York basis. Smaller quantities were 15c. per 100 pounds higher.

Farmers placed less corn under price support in 1954 than in 1953, according to the Census Bureau. The decline in corn loans was principally due to drought damage to the 1954 crop, which was 7 percent smaller than 1953 production. Visible corn supply continued to increase and was lifted 839,000 bushels to 51,310,000 bushels for the week ending February 11, against 31,849,000 bushels for the same week last year, according to the Chicago Board of Trade.

Egg Albumin — Trend of prices continued upwards last week, due to the higher cost of production. Price increases ranged from 12c. to 18c. per pound, depending upon seller. Moderate demand was reported at the higher levels, with some users placing orders up to 30-day requirements before the last advance became effective. Flake was quoted at $1.76 to $1.82 per pound, spot, according to seller and quantity. The technical grade was in fair request and was quoted at 76c. to 85c. per pound, as to quantity.

Egg Yolk — Higher prices were announced for flake because of the increased cost of eggs. Sellers lifted quotations 10c. and 12c. per pound to $1.24 to $1.29 per pound, spot, according to seller. Trading was reported spotty, chiefly for prompt requirements.

Potato Starch—Market in Maine was stronger and advanced ½c. per pound, as a result of limited production due to inclement weather and shorts endeavoring to cover. Carlots were lifted to 6¾c. per pound, f.o.b. mills, Maine, prompt shipment. Consumers showed more interest in March requirements. The spot situation also was firmer and higher prices were named for stocks in warehouse. Spot stocks were raised to 8½c. to 9c. per pound, according to quantity. The Idaho market was unchanged, but firm at 6¾c. per pound, carlots, f.o.b. mills, with ½c. less for shipment to eastern points.

Tapioca Flour — Replacements were strong and higher from the Far East and Brazil. Trading of late has increased appreciably, resulting in fractional advances for shipment from Siam and Java. Siamese grades ranged from 6¼c. to 7½c. per pound, carlots, exdock for prompt shipment. AAA Java flour also was higher at 6½c. per pound, same basis, for March shipment. This stiffened shipments from Brazil, which were raised to 7½c. per pound, carlots, exdock, for good quality flour. Stocks on spot were steady and unchanged. Top grade Siamese was quoted at 7½c. to 7¾c. per pound, exwarehouse, as to quantity, and Brazilian, 8¼c. to 9c. per pound, same basis.

Price Trends

Advanced

Egg albumin, flake, 12c. to 18c. per lb.
yolk, 10c. to 12c. per lb.
Potato starch ½c. per lb.
Tapioca flour, Siam, ship't, ¼c. to ½c. per lb.
Brazilian, ship't, ¼c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 19, 1954
100.03	92.30	94.08	97.96

(For Current Prices see Page 9)

Tanning Materials

Government action is urgently needed to remove prevailing discrimination in the form of artificial trade barriers involving foreign raw stock and American leathers, a group of leather manufacturers and association representatives said at a recent industry conference with officials of the Business and Defense Services Administration, Department of Commerce. Industry spokesmen said a substantial number of foreign countries have erected barriers against American leathers amounting to virtual embargoes. It was claimed that exports of U. S. leather of various types have declined 50 to 80 percent by comparison with exports of the pre-World War II period. The tanners, moreover, charged that they do not have access to raw materials such as calf skins, horse hides, etc., in countries which claim to have an urgent need for dollars.

BDSA officials informed the industry conferees that representatives of the Department of Commerce will attend the Geneva conference on General Trade and Tariffs Agreements which convenes this month. These representatives will be on the alert to spot proposals which might have the effect of injuring American business.

Chestnut Extract—Buying interest continued restricted to actual needs. Prices were without change and ruled steady. Liquid 25 percent tannin was quoted at 4c. per pound, tankcars, f.o.b. works; 4¾c. per pound, barrels, carlots, and 5.10c. barrels, less carlots; powdered 60 percent tannin, 10.32c. per pound, bags, carlots, and 11.02c. bags, less carlots, same basis.

Cutch—This market was unchanged and firm. Shipments were maintained at 8½c. per pound, exdock, plus duty. Offers were light.

Myrobalans — Interest in replacements was quiet. Shipments were steady at the recent advance. Assorted JI's were held at $58 to $59 per ton, exdock; Bombay, $54 to $55 per ton and crushed, $69.50 to $70 per ton, same basis. Extract was unchanged for 55 percent at 7¼c. per pound, exdock, plus duty.

Quebracho Extract—Trading was light, chiefly for nearby shipment. Market was unchanged and firm. Solid ordinary guaranteed 63 percent tannin was quoted at 11 21/32c. per pound, exdock, plus duty, and clarified, 64 percent at 12 23/64c. per pound, same basis.

Wattle—Conditions in this market were without change. Trading was limited to an occasional lot for nearby shipment. Prices were maintained at former levels. Fair average bark was quoted at $98 per ton, exdock, and merchantable at $94 per ton, same basis. East African extract, 60 percent tannin was offered at 9¾c. per pound, exdock, plus duty and South African at 10c. per pound, same basis.

For Late Market Developments, See Page 4

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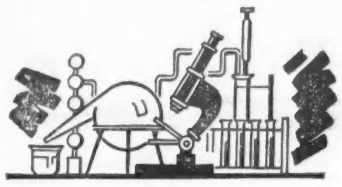

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40% Wettable Powder
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74% Emulsifiable (8 lb./gal.)

HEPTACHLOR
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24% Emulsifiable (2 lb./gal.)

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40% Wettable Powder
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Butyl Ester of 2,4-D Technical
Butyl Ester of 245-T Technical
Isopropyl Ester of 2,4-D Technical
Isopropyl Ester of 245-T Technical
Iso-octyl Ester of 2,4-D Technical
Iso-octyl Ester of 245-T Technical

LINDANE
20% Emulsifiable Concentrate (1.6 lb./gal.)
25% Wettable Powder

MALATHION
46% Emulsifiable Concentrate
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Butyl Ester 2,4-D Emulsifiable (4 lb./gal.)
Butyl Ester 2,4-D Emulsifiable (6 lb./gal.)
Butyl Ester 2,4-D Non-Emulsifiable Oil Base (6 lb./gal.)
Amine 2,4-D Concentrate (4 lb./gal.)
Amine 2,4-D Concentrate (6 lb./gal.)
Isopropyl Ester, 2,4-D Emulsifiable (3.34 lb./gal.)
Low Volatile 2,4-D Emulsifiable (4 lb./gal.)
Low Volatile 245-T Emulsifiable (4 lb./gal.)
Butyl Ester 245-T Emulsifiable (4 lb./gal.)
2 & 2 2,4-D & 245-T Butyl Ester Emulsifiable
2 & 2 2,4-D & 245-T Low Volatile Emulsifiable
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Agricultural Chemicals

Demand for fertilizer materials continued to improve. Ammonium sulfate, nitrate and triple superphosphate were reported fairly well soldup through June by several producers. Urea supplies remained tight, due in large part to active demand for chemical end use, although it was said that fertilizer and stockfeed demand had shown considerable strength during the past few weeks.

The Republic of Korea has announced that it will receive bids on approximately 230,000 metric tons of nitrogenous fertilizers and 50,000 tons of phosphatic fertilizers to be purchased with U. S. foreign aid funds. The bidding deadline is February 22. Ammonium sulfate is said to be the preferred nitrogenous material although alternates are listed. Of phosphatic fertilizers, preferred is ammoniated superphosphate, and next in order come calcium super, fused phosphate, and other types.

The livestock industry was reported not too active in the market for animal and vegetable meals. Poultry farmers were not satisfied with the current status of trade, as evidenced by comparatively low retail prices for chickens and eggs, and were content to purchase in small quantities for immediate needs only. It was further reported that there were a lot of sheep, hogs and cattle on the hoof on farms which were not bringing a price satisfactory to the farmers. This position was reflected in spotty feed demand from that direction.

Pesticides were quiet in both the foreign and domestic market during the week. Increased demand was expected from Central America for cotton dusting in the near future. More active interest was expected in domestic trade as the spring approached. Prices were reported generally stable.

Price Trends

Advanced

Bonemeal, $5 per ton.

Reduced

None

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Feb. 19, 1954
111.06	110.68	109.58	111.52

(*For Current Prices see page 9*)

Animal and Plant Foods

Ammonia, Anhydrous — Production of ammonia liquor by cokeoven producers in 1954 totaled 37,080,075 pounds, as compared with the 1953 total of 49,691,507 pounds, according to the Bureau of Mines. The sharp drop in production was concurrent with sharply lower steel production in 1954.

Output of ammonia liquor in December totaled 3,824,950 pounds, an increase of 3.8 percent over the November total of 3,684,023 pounds. Output for the corresponding month of 1953 totaled 4,207,900 pounds. Sales of ammonia liquor in December totaled 2,919,518 pounds, as compared with 2,604,936 pounds for November, or an increase of 12.1 percent. Sales for December, 1953, totaled 2,991,000 pounds.

Some sources felt that there were currently plentiful supplies, and that material could be readily obtained for prompt delivery. On the other hand, forward positions appeared tight to most suppliers, and it was felt that supplies would be hard pressed to fill needs during the coming peak season. Quotations held steady and unchanged for fertilizer grade.

Ammonium Nitrate — Buying interest was on the upswing throughout the south and southeastern areas of the country last week as consumers began to think more of direct application materials. Some major producers reported soldup positions following weeks in which material had been easily obtainable. Preliminary figures issued by the Bureau of Census place production of ammonium nitrate (100 percent NH_4NO_3) for December at 183,915 tons, as compared with 179,207 tons for November, or an increase of 3 percent in output.

Ammonium Sulfate — The Bureau of Mines reports that production of ammonium sulfate during 1954 amounted to 1,645,735,884 pounds, as compared with 1,892,266,104 pounds in 1953. Sales of ammonium sulfate in 1954 totaled 1,629,296,340 pounds, as compared with 1,678,791,696 pounds, sold in 1953. Figures for 1954 production and sales are preliminary.

The Bureau further indicates that output of ammonium sulfate in December amounted to 155,097,989 pounds, an increase of 6.5 percent from November's figure of 145,682,466 pounds; output for December, 1953, totaled 150,434,000 pounds. Sales for December amounted to 113,423,995 pounds, a decrease of 3.1 percent under the output of 117,037,572 pounds reported for November, and sharply under the total sales of 191,529,900 pounds reported sold in December, 1953.

Information continued to come in that producers were soldup through June in many areas of the country, although it was indicated that material could be had in spot lots for prompt shipment. Both inland and coastal producers maintained heavy production in order to keep up with backlogged orders. Prices held firm and unchanged.

Bonemeal — Offerings continued very scarce, and as a result, prices rose $5 per ton. Material was quoted at $75 per ton, f.o.b. works.

Castor Pomace — Material continued nominal at $37.50 per ton, f.o.b. plant. Offerings continued scattered due to the infrequency of bean crushing operations.

Fishmeal—The in-between season was fully in effect last week. Offerings were limited due to the end of the menhaden fishing season. Fertilizer demand was not active as yet. Poultry farmers held off buying for feed due to the currently dull status of the poultry trade. Meal was listed nominally at $150 per ton, f.o.b. works, Baltimore. Fish scrap was also unchanged, quoted at $145 per ton, same basis.

Nitrogenous Tankage—This market was generally without feature. Quotations were unchanged at $5 per unit-ton, f.o.b. works.

Phosphate Rock—Supplies were plentiful at unchanged prices. Demand continued to revive as users prepared for the coming season.

Superphosphate — There was enough normal around to take care of needs, and producers felt no current pressure on supplies. This situation did not apply to triple, however. Some sources reported soldup positions as far ahead as June, despite increased production facilities. Prices for both normal and triple continued unchanged and steady on contract.

Urea—Supplies continued on the tight side due largely to continuing strong demand for chemical end use, particularly in the manufacture of urea resins. Stockfeed interest was said to be expanding. Fertilizer demand was also on the upswing, as formulators took sizable quantities for mixing. Prices held without change.

Los Angeles Market

Los Angeles.—Steady movements of phosphates were again reported by suppliers as well as increased interest and trading in nitrates. Fish meals were firm with trading at $2.50 per unit of protein. Other organics were weaker. Although no spot material is available, castor pomace is listed at $42.50 per ton.

Pesticides

Foreign and domestic markets were quiet during the week. Producers anticipated a pickup for domestic end use in the near future. A rise in buying inquiry from Central America was expected soon, due to the coming of the cotton dusting season.

Aldrin—Buying interest from formulators showed improvement. Supplies were ample. Quotations were unchanged for technical material at 80c. per pound, fiber drums, carlots or truckloads, delivered, and 85c. per pound, less carlots, same basis.

2,4-D—Acid and ester prices remained unchanged during the week. Current buying interest was quiet, although inquiry was expected to pick up as the spring neared. Supplies were plentiful.

DDT—Quotations remained steady and unchanged. Domestic inquiry was dull. Activity for formulation was expected to rise during the near future as suppliers readied material for spring and summer shipment. Current production was well able to take care of demand.

2,4,5-T—Demand for this, as well as other herbicides was seasonally slow, and producers did not expect a real pickup in interest until late in the spring. Prices were stable, and stocks were plentiful.

For Late Market Developments, See Page 4

Pacific Coast Borax Names Dibble Western Division Mgr.

Pacific Coast Borax Company, a division of Borax Consolidated, Ltd., New York, has named W. J. Dibble general sales manager of the western division and E. M. Kitchen industrial sales manager, also of the western division.

Mr. Dibble was associated with Oronite Chemical Division of Standard Oil Company of California before joining Pacific Coast Borax. In his new position, he will be responsible for industrial sales in the western states and have over-all direction of the agricultural sales division. Mr. Kitchen was a sales representative in the industrial division before his present appointment.

Herbicide Development Told

Geigy Agricultural Chemicals, New York, a division of Geigy Chemical Corporation, has announced a new herbicide for cotton. Designated "Geigy 444," the compound is 2-chloro-4, 6-bis-(diethylamine)-s-triazine. The product is presently available to research personnel for experimental use as an emulsion concentrate containing four pounds of active material per gallon.

Geigy Unit in Pharmaceutical Council

Geigy Pharmaceuticals, a division of Geigy Chemicals Corporation, has become the 18th drug manufacturer to join the Natonal Pharmaceutical Council, it has been announced by Dr. Theodore G. Klumpp, council president. Ernst Hammer, president of Geigy, will represent his company on the council's executive committee.

Goodrich Chemical Appoints 3 to Plastic Sales Positions

B. F. Goodrich Chemical Company has announced the appointment of three new plastic product sales managers. They are W. D. Lahey, manager of extrusion and molding materials; E. B. Osborne, manager of calendering and coating materials, and H. L. Wuerth, manager of wire and cable materials. All report to G. A. Fowles, manager of plastic materials sales.

All three men, former sales representatives, have moved into the Cleveland area from Goodrich chemical offices in other states. Mr. Lahey came from Chicago; Mr. Osborne from Philadelphia and Mr. Wuerth from New York.

Obituaries

Gen. Brehon B. Somervell

Gen. Brehon B. Somervell, chairman of the board of Koppers Company, Pittsburgh, Pa., and retired four-star general who commanded the army service forces during World II, died February 13 in Ocala, Fla. He was sixty-two years old.

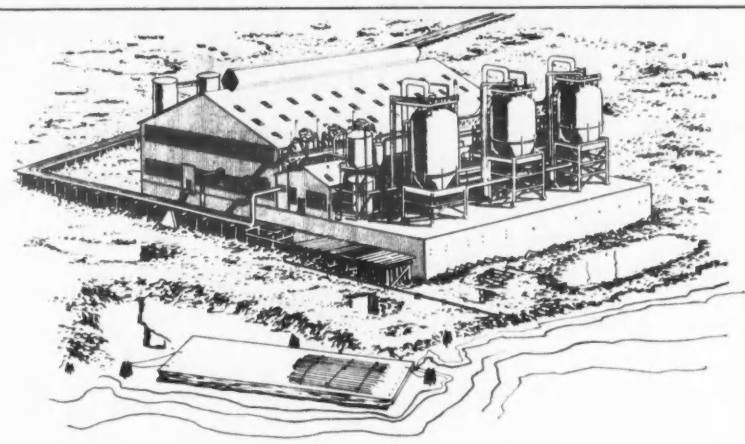
Gen. Somervell was elected president of Koppers in 1946. His selection as chairman of the board came in 1950. He guided the post-war expansion of the company, including its entrance into the field of synthetic organic chemicals. Gen. Somervell retired from the army in 1946.

Oliver S. Ambrose, manager of the economics and petroleum analysis department of Tide Water Associated Oil Company, San Francisco, died February 15 in that city. He was seventy years old.

John B. Hagstrom, an engineer for American Cyanamid Company in Linden, N. J., died February 15 in that city. He was seventy-two years old.

E. Russell Lloyd, a consulting geologist who served with many of the country's major oil companies, died February 15 in Midland, Tex. He was seventy-two years old.

Lyman L. Long, former president of an oil exporting firm in New York, died February 10 in Mendham, N. J. He was sixty years old.



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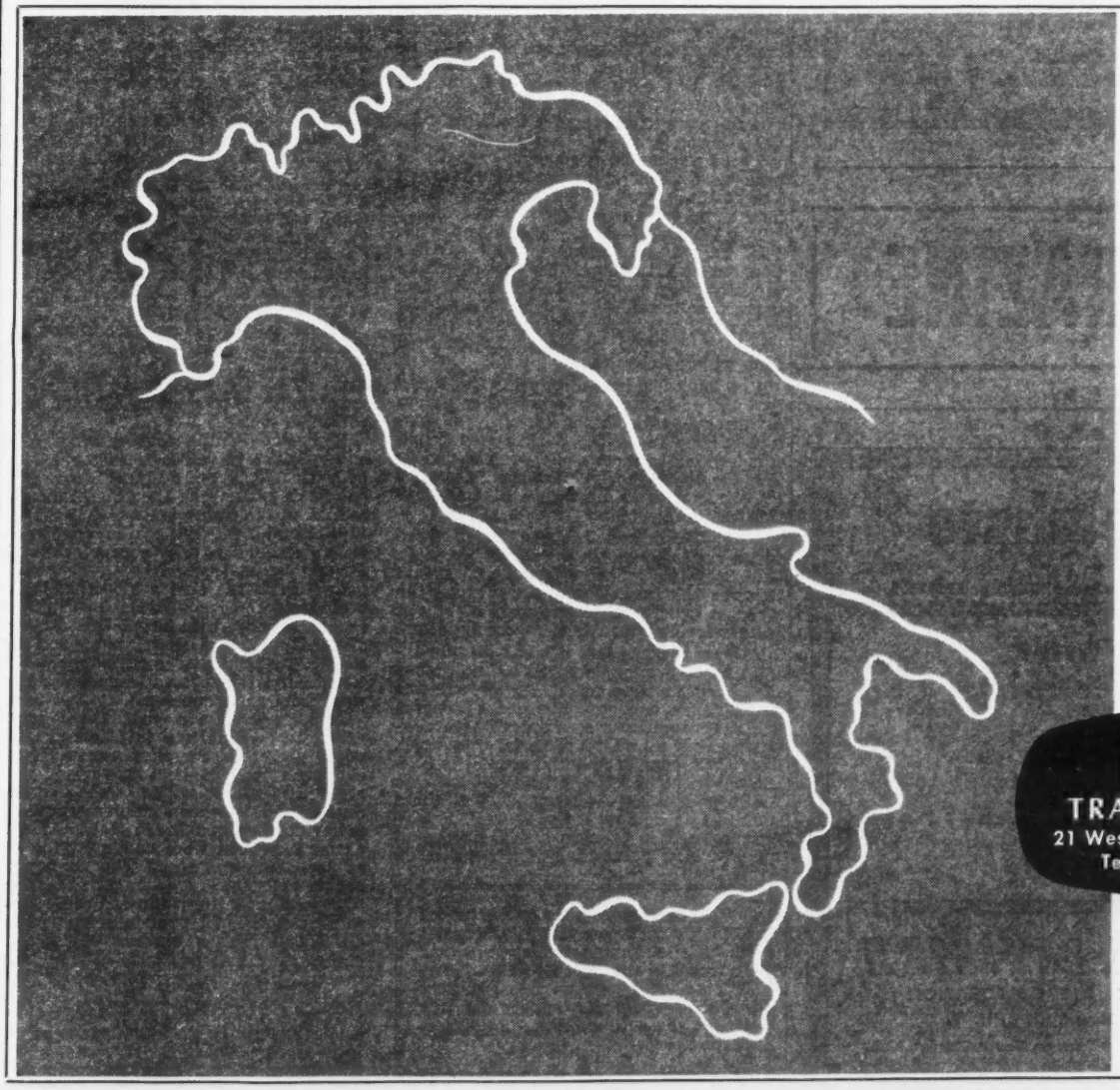

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Industrial Organic Chemicals

Price stability was once again a feature of the industrial organics market. There were still some prices that were a bit weak and a few prices that were firm enough to lead trade sources to look for future increases. However, business this month continued to go along at the same levels. Overall demand has held up well.

Some materials are doing exceptionally well. Demand was quite good for ketones, alcohols and esters moving to lacquers and general solvent needs. Ethanol sold for a variety of outlets at an equally good pace. Fermentation normal butanol held up for plasticizers, resins, butyl acetate requirements and lacquers in general.

Carbon disulfide was another industrial organic which reflected the improvement in the rayon industry. Improvement in the situation for glacial acetic acid, because of more rayon activity, has been mentioned in recent weeks. Carbon disulfide went in the direction of rayon, to rubber and for cellophane. CMC was selling at a very good level. Prices were steady and firm at former listings. There were no problems with supplies, despite a strike at one plant.

Ethanolamines retained a good level of sales easily. New production was being absorbed without softening the tone of the market. Ethylene presented a generally satisfactory picture. Production was capable of handling more demand, but sales were steady and good. Glycol derivatives of the oxide were sustained. Antifreeze calls for ethylene glycol were off, but some industrial use have filled in nicely, it was said.

Formaldehyde moved very well to synthetic resins and adhesives. Methanol sold in good volume for industrial applications since the antifreeze call tapered off. Refined glycerine was still rather tight, but there was less consumer pressure, producers said. Crude glycerine was still in short supply. A little more crude was on the way as a result of recent purchases.

Alcohol—Producers said that demand has held up well in this market. Ethanol is moving into the same consuming channels at a consistent pace. No letup in demand was seen or expected. Prices were firm at their present levels. No revisions were anticipated immediately in quotations.

There was ample production capacity to take care of all consumer requirements. Demand was well diversified and would hold up to the current pace, it was felt.

Butyl Alcohol—Demand held up well. Producers were moving current production out to fill orders. There was ample capacity to take care of the demand. The overall call from plasticizers, synthetic resins and solvent uses of butanol was in line with general business. Prices held firm without change.

Carbon Disulfide—Producers indicated that there has been an improved call from rayon outlets for this material. The general pickup in textile outlets was found encouraging to most trade sources. Prices held firmly to previous listings. Supplies were adequate to take care of consumption requirements.

CMC—Producers indicated that there was a good demand in the current market. One source rating sales "excellent," stated that the volume in January was about the same as last year. Prices were steady at former levels. No revisions were expected.

Although there was a labor dispute tying up one producers' facilities, no apparent shortages were noted. "Everyone was being taken care of adequately," it was said. Consumers would be able to continue to get all of the material they need. There was enough material around to handle the demand.

Ethanolamines — Demand for these amines was holding up very well. Producers have been able to sell their output quickly. New production which has come in was being absorbed by the market without difficulty. Prices were maintained and were considered firm. The mono-, di- and tri- isomers were all said to be in good shape.

Ethyl Acetate—The esters continued to move well for lacquer material needs. Overall solvent call has been good. Needs were holding up without any show of weakness. Prices were steady and firm.

Ethylene Dichloride—There was no significant change in market conditions for this material. Some sources were able to move steady volumes to producers of tetraethyl lead. Other industrial applications of ethylene dichloride were soft now, it was said. Use for grain fumigants was seasonally off. There was a little solvent call, uses in metal degreasing operations and other small specialized uses. There were no really large outlets beside the gasoline additive use. Prices were steady at former quotations.

Ethylene Glycol—This market was unchanged. The antifreeze demand was off during the seasonal lull. Industrial requirements have held up fairly well. Demand from such outlets as cellophane and explosives was good. The cellophane market has received a boost from newer packaging technics. The results were especially noticeable in super-market displays. Meats and vegetables can be displayed in clearly visible odorless packages that have the advantage of being heat-sealable.

Explosives have produced a good call for this glycol and other polyols for many months largely because of the great amount of mining and drilling operations going on and the extensive road building programs being carried out throughout the country.

Ethylene Oxide—Producers were relatively well satisfied with demand for the oxide. Some sources would like to see a little more industrial call. There was a good deal more output capacity than consumption. But, demand was generally better than it was a year ago. And, the call for the glycol derivatives has held up reasonably well. No price changes were reported and none were looked for.

Formaldehyde — Producers were doing a very good business in formaldehyde. Demand for resins and adhesives has been very high. Most sources were moving production right out as fast as it was made. A generally good pace could be expected to be sustained at a level in line with overall business activity.

Formaldehyde prices were steady without change. Most sources considered prices quite low, but there was no immediate action expected in the market. Adequate supplies were available to handle consumer needs.

Glycerine—Trade sources were of the opinion that there was less scare buying of refined glycerine than there was a couple of weeks ago. Consumers were less fearful of the developments in Asia. They also found that there was enough glycerine around to take care of their production requirements.

Supplies were still a bit snug, but the pressure for extra material has been lessened. Producers reported that February stacked up as a short, but good sales month. Demand was good from all directions and was expected to hold up. Prices were firm and unchanged.

Importers related that there isn't a great deal of change in the market for crude glycerine. Supplies were still quite short. A strong demand for refined grades assured that. A little more imported crudes will become available when some material just bought in South America comes in. Prices were nominally the same at 21c. for soaplye and 23c. for saponification material.

Glycerine stocks at the end of December totaled 42,359,000 pounds compared with 42,867,000 pounds (revised) held at the end of November and 59,989,000 pounds at the end of December, 1953, according to the Association of American Soap and Glycerine Producers, Inc. Production of crude and synthetic included on a crude basis during December totaled 18,940,000 pounds, as against 16,370,000 pounds pro-

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month
130.46	130.46	130.53

(For Current Prices see Page 9)

This market reports on industrial aliphatic organic chemicals. Reports on industrial aromatic organics may be found in the Coal Chemicals market, while reports on fine and rare organic chemicals appear in the Drugs, Fine Chemicals, Botanicals market.

For Late Market Developments, See Page 4

duced in November and 18,453,000 pounds turned out in December, 1953. The cumulative total of monthly figures in 1954 amounted to production of 207,092,000 pounds, compared with 214,997,000 pounds produced in the twelve months of 1953.

Methanol—There was a very good industrial call in the market. Antifreeze outlets were presently limited to fill-in orders during the off-season. However, industrial needs for formaldehyde and de-icing uses have maintained a good level of activity for methanol.

The formaldehyde activity was spurred by synthetic resins and urea-formaldehyde adhesives too. The de-icing outlets were largely in government and airline contracts and some automotive fuels uses too. Hence, methanol could well be expected to hold up until canning operations for the next antifreeze season begin. Prices were firm at previous quotations. No revisions were anticipated.

Nitroparaffins—There was no basic change in the position of short supplies and a high buying interest for these materials. Production facilities are not able to handle all current demand. New plant expansion is scheduled for completion later this year. Nitromethane, nitroethane and nitropropanes are basic NP's that have versitility in solvent use, chemical end-use, uses in rubber, paints, lacquers, textiles and fuels. Prices remained unchanged at former levels.

Sucrose—Starting this week, the price of raw sugar will be quoted in the prices current section of the OPD under the listing of crude sucrose. Prices will be the latest quotations available at the end of the week.

Current prices were at 5.45c. per pound for raw material in bags or bulk on an f.o.b. basis. The refined white material was steady at the 8.65c. per pound level in bags at the refinery. Feed mixers have been using sucrose in animal and poultry feeds. And, some work has been done with the material for chemical end-use in detergents and synthetic fibers, it was reported.

Nebraska Voids Fair Trade

The Nebraska Supreme Court last week ruled that the state's eighteen-year-old fair trade act is unconstitutional. The high court ruling upheld an earlier finding of the Douglas County District Court in a suit brought by the McGraw Electric Company, Elgin, Ill., against Lewis & Smith Drug Company, Omaha. McGraw had sought to restrain the drug company from selling the electric toasters it makes for $19.95 when the fair trade price was $23. The wholesale price was $14.72.

Stanolind Installing Generator For Hydrocarbon Synthesis

Revamping of the hydrocarbon synthesis plant at Brownsville, Tex., of Stanolind Oil & Gas Company, Tulsa, Okla., is being carried forward with installation of a new gas generator. The company expects to complete revamping and start operating the synthesis and chemical plants late in the year. The new generator will burn natural gas with oxygen under closely controlled temperatures and pressures to produce synthesis gas. The generator, one of two at the plant, is a key installation in the manufacture of synthetic gasoline and raw chemicals from natural gas.

Methylamines Data Sheet Offered

A new safety data sheet on methylamines has been announced by the Manufacturing Chemists' Association. The twenty-page folder, part of a continuing series, covers the properties and essential information for safe handling and use of methylamines. Copies of the folder, SD-57, methylamines, may be obtained from the MCA, 1625 Eye Street, N. W., Washington 6, D. C., at 25c. each.

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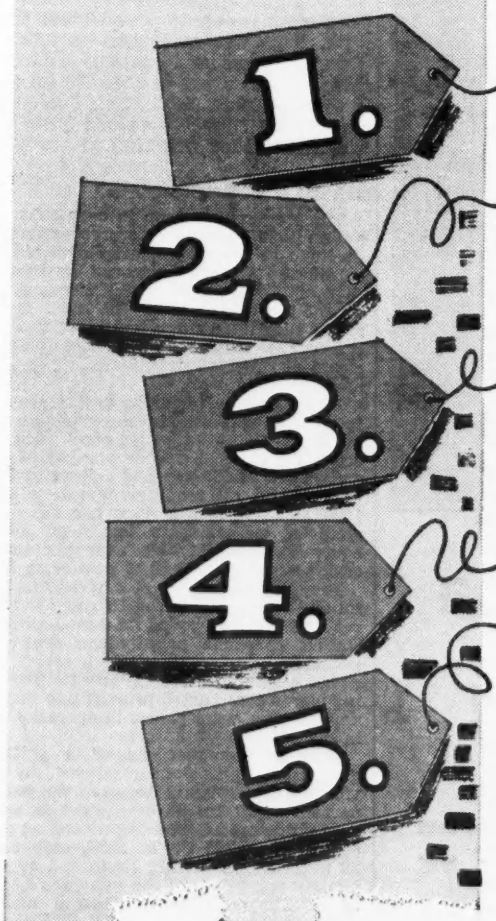

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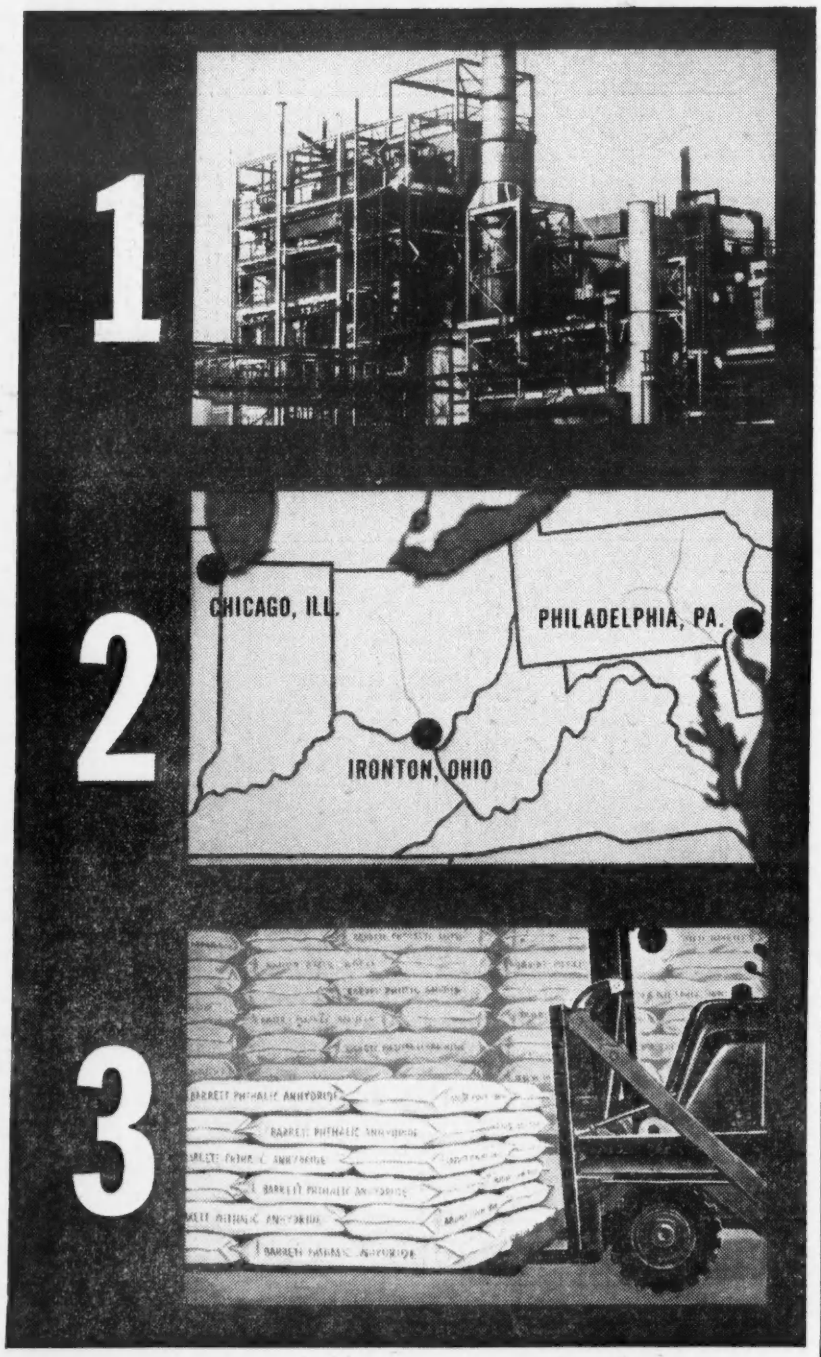

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Coal Chemicals

Price activity among coal chemicals was confined to a fractional increase for imported crude naphthalene. This move was not a sudden stroke last week, but, rather a gradual firming of a narrow range carried through previous weeks.

No real changes in the overall picture were noted. Demand levels were about the same. Some basic items were moving well and some materials were still a bit slow. Tar acids moved quite well in general. Cresols and cresylic acid sold well for various end-uses. The meta-para fractions were especially strong. Naphthalene was selling at a better pace. Demand for crude surged upward as phthalic anhydride grew tighter.

Automobile industry activity boosted phthalic needs. Rubber industry sales paralleled this action and resulted in good sales of rubber chemicals. Aniline, b-naphthol and resorcinol saw a sizable demand from this direction. The dyestuff intermediates also saw good buying because of textile improvement. Anthraquinone vat dyes were picking up. 2-Vinyl pyridine was moving along nicely. Quinoline was still slow. Refined pyridine sales marred the tar base picture. Demand was very slow, although slightly better for some sources than it was last year. It was said that there was enough new strength in pyridine to anticipate total yearly volume to be much better than 1954.

Steel operations in the week ending February 20 were scheduled to be at 88.2 percent of theoretical capacity, or an index of 132.5 (1947-49=100), according to the American Iron and Steel Institute. This was equivalent to 2,129,000 tons of ingots and castings compared with actual output of 2,095,000 tons the previous week, 2,008,000 tons one month ago and 1,779,000 tons one year ago, when the index was 110.7.

Basic Products

The tremendous drop in oven-coke output in 1954 resulted in corresponding reductions in output of coal chemicals, according to a report released by the Bureau of Mines showing preliminary statistics of the coke industry in 1954. It was noted that the slower operating rates of the ovens increased yields of primary chemical raw materials, including tar, ammonia and light oil.

Although figures in the report are subject to revision, information available now indicates that the crude tar yield increased from 7.90 gallons per ton of coal carbonized in 1953 to 8.46 gallons in 1954. Crude light oil recovery was best since 1940 and was 2.93 gallons per ton. The yield of ammonia, in terms of sulfate equivalent, was 21,20 pounds per ton of coal, compared with 20.09 pounds in 1953.

Production of light oil derivatives, benzol and toluol, decreased 19 and 7 percent respectively, and xylol increased slightly. Output of crude naphthalene showed a smaller decrease than most other coal chemicals because several new tar processing plants constructed primarily to recover naphthalene, were placed in operation late in the year.

This development caused a shift in grades of naphthalene produced. In previous years, roughly between 50 and 60 percent of total naphthalene output was a very crude material having a melting point of less than 74° C. In 1954, only about 23 percent was of this grade and approximately two-thirds of the total was a higher quality material and had a melting point between 76° C. and 79° C. The coal chemical which suffered the largest decrease in production was 2 pyridine. Refined pyridine fell-off 55 percent.

Benzol—The market for this aromatic was unchanged in the past week. There was ample material to take care of current consumption. Demand was rated a little better than it had been by some sources. However, the results of increased output were seen in occasional surpluses.

Steel rates were still climbing and enlarging the total volume of coaltar benzol available. It was true that demand has been expanding at the same time and so far there have not been too many serious consequences felt in the benzol market. Many trade members felt that benzol would hold up satisfactorily for the next few months. Beyond that time, producers have taken a "wait-and-see" attitude.

Creosote—This market still experienced slowness in consumer interest. Railroads were in a generally better financial status than they were early last year. However, there has been no real indication yet that demand for creosote was going to pick up. Maintenance operations normally are not very high in the colder months. Thus, a little pickup in activity was looked for later.

Cresylic Acid—Demand for the tar acids was well sustained at a high level. Producers could sell a good deal more of the meta-para isomers than they had available. A tight supply for these grades was expected to be a part of the market for a while.

All sorts of uses, including cresylic resins and wire enamels, have resulted in good buying for cresylic acid. Other outlets include tricresyl phosphate for gasoline additive use and plasticizers, flotation, disinfectants and textile end-uses. The general business pace has been contributory to better tar acid sales.

The movement of cresylic acid was not only good for domestic coaltar producers, but sales were also in comparable volume for petroleum producers and for importers of ADF acid too. Prices were firm at previous quotations.

Naphthalene—Producers reported that there was a very good demand for crude material. Demand was very good from phthalic anhydride producers and was holding up well for naphthalene derived intermediates. Domestic suppliers said that they could sell more naphthalene than they have available. But, it was felt that the current surge in phthalic buying might level off when inventories are adjusted to higher operational rates.

Importers stated that there was still a strong call for crude hot-pressed material. The price has edged up by the disappearance of any 5¾c. material that had been around in previous weeks. Suppliers reported last week that the 6c. price was about right for 78-degree hot-pressed naphthalene. There still wasn't a great deal of imported naphthalene available that could be sold at that price.

Phenol—Producers reported that they were doing fairly well moving their natural material. The pace for USP phenol was slightly better than it had been earlier. But, there was a lot more room for improvement. Total production capacity was yet untapped. Prices held steady at former postings.

Pyridine—There has not been a great deal of improvement in the market for refined pyridine. Sales were still quite slow. But, it was said to be a bit better than sales last year. Indications were strong that the total volume of the year would exceed last year's production and sales. The lower price was felt to be offering a slight inducement. Some sources have not seen much to be encouraged about in the market.

Toluol—There was some softness seen in the toluol as steadily increasing steel operations brought additional light oil output. Industrial demand has done a substantial job in keeping output moving.

Good quantities have been exported in recent weeks too. Defense needs have not been as high as they were during emergency periods. But, a sizable volume has moved for nitration and avgas. A number of trade sources were speculating that government call for toluol may pickup due to developments in Asia. It was generally felt that the toluol market would not change much in this quarter. Most Febru-

Price Trends

Advanced

Naphthalene, crude, imp., ¼c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 19, 1954
114.63	114.63	114.61	114.56

(For Current Prices see Page 9)

Production Estimate

Estimated output of coal chemicals recovered from cokeoven operations during the week ending February 20, was as follows:—

Ammonia liquid, NH_3	lbs.	995,127
Ammonium sulfate	lbs.	35,966,733
Benzol	gals.	3,440,296
Coaltar	gals.	15,779,871
Creosote oil	gals.	381,398
Naphthalene, crude	lbs.	2,430,953
Pyridine, refined	lbs.	25,589
Toluol	gals.	676,683
Xylol	gals.	180,544

For Late Market Developments, See Page 4

ary orders are in and the month was going to be a fairly good one, despite it being a short month.

Xylol—It was regularly reported that the market for this aromatic is in a reasonably balanced position. Demand has been sustained. There was ample coaltar and petroleum material around to take care of overall consumption needs. Surpluses of xylol were less apparent than extra toluol or benzol because of the smaller volume involved.

Intermediates

Aniline—A sizable demand was well sustained for aniline and its derivatives. The call was well supported by the activity in the rubber industry and by improvement in demand for dyestuff intermediates going to textile outlets.

Some producers have been running their production at full capacity to keep up with the volume of orders. It was said that they have managed to meet requirements without being able to get much ahead of the demand. Trade sources anticipated that demand would hold up well as it has in recent weeks. No shortages were expected to develop. Price schedules remained firm at previous levels.

Anthraquinone—There has been a definite improvement in demand for vat dyes since last fall. However, there was still more room for improvement. The same situation was true of most anthraquinone derivatives—they were improved but could be better.

There was ample production to take care of all anticipated consumer needs. Prices were firm without change.

6-tert-Butyl-m-cresol — There were no significant changes in this market. Prices were firm at previously established quotations. Demand was steady and at a relatively good level. Ample production was available to take care of consumption needs.

b-Naphthol — "Business was booming," one source indicated. Demand for this naphthalene derivative was particularly good from the rubber industry and was also well sustained from dyestuff intermediate outlets. Producers indicated that they have been able to keep up with the call. But, there is no excess material around.

Most trade sources looked for the demand to hold up during the next several months. The overall outlook for intermediates was good, and b-naphthol was one of the high spots in the picture, it was said. Price schedules remained firm at former postings.

Phthalic Anhydride—Buying continued to be rather heavy for phthalic. Producers have been squeezed for extra material to take care of all of the added interest. Most consumers were getting enough phthalic for immediate production schedules without any difficulty.

It was extra material that was sought to improve inventory positions that was toughest to find. Producers were under the same restrictions because they haven't comfortable inventories and are unable to build them with current demand so strong. In addition to the call for alkyd resins and plasticizers which have gained momentum with high automobile production, phthalic was being exported in good quantity too.

The feeling that phthalic prices may still go up because of higher naphthalene costs was still a part of the picture too, many trade sources felt. There was no indication that prices would go up. But, quotations were not likely to come down and the inventories were useful.

Quinoline—Demand was slow for this intermediate. Producers indicated that there hasn't been any sign of improved calls. Mildew-proofing requirements of the government have been down for a long time. Except for captive uses, quinoline has been out of the niacin market for a couple of years. There was not too much industrial call for quinoline currently. However, there was ample production capacity standing by if there defense needs for it.

Resorcinol—A good call was coming from the rubber industry for this intermediate. Producers related that demand from other outlets was steady. Price schedules were firm and unchanged. Supplies were adequate to take care of demand requirements.

Tobias Acid—This market has seen several bulges in demand in the past several months. When buying interest was heaviest, it was not always too plentiful. However, a temporary slow period in export outlets has eased the pressure in the market. Prices were steady at previous listings.

2-Vinyl Pyridine—There was no significant change noted in this market. Demand from the rubber industry has kept a very good volume of material moving along. The price was firm at previous quotations. Adequate supplies were available to take care of immediate consumption needs. But, production moved out as fast as it was made.

Koppers Company to Market Plastics Under Trademarks

Koppers Company, Inc., Pittsburgh, Pa., will market its entire plastics line under trademarks, it has been announced by C. H. Poltenger, sales manager of the chemical division. Heretofore, the plastics had been designated by number.

Koppers polystyrene, a light, rigid plastic used in toys, housewares, wall tile and appliances, will be marketed under the trademark "Dylene." The company's expandable polystyrene, a new foamable plastic that can be molded to any shape, will be designated by the trademark "Dylite." "Dylan" is the new trademark for polyolefine plastics, of which the "squeeze bottle" plastic polyethylene is typical. Koppers styrene-butadiene latices, ingredients in the newest washable paints and paper coatings, will be trademarked "Dylex."

Koppers feels that the use of these names will allow molders of plastic products to label their goods showing the exact type of material used in their manufacture, and thus tie in with Koppers national advertising and promotion.

Polyethylene Resin Product Is Developed by Bakelite

A new-type polyethylene resin with greater rigidity and higher temperature resistance is now in pilot plant production at South Charleston, W. Va., according to Bakelite Company, a division of Union Carbide & Carbon Corporation, New York. Experimental quantities of the resin will be offered for use in the near future.

The resin is produced under conditions that approximate atmospheric pressure and temeprature. Current types of polyethylene are normally produced at extremely high pressures and elevated temperatures.

Softening points up to 240° Fahrenheit are indicated for the new type polyethylene, the company stated, as contrasted with softening temperatures of 20 to 30 degrees Fahrenheit lower for conventional polyethylene resins.

Nuclear Laboratory Planned

Nuclear Development Associates, Inc., White Plains, N. Y., has purchased through its real estate subsidiary, Southern Dutchess Corporation, an 1,100-acre tract of land in Dutchess County to serve as a scientific laboratory, it was announced last week. The tract lies astride the Beekman-Pawling town lines on undeveloped property.

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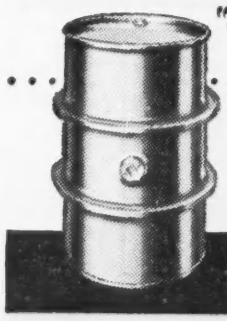
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Drugs, Fine Chemicals, Botanicals

Crystalline calciferol was recently reduced 15 cents per gram, according to trade sources. Demand for this compound was said to be at satisfactory levels and supplies were adequate to meet consumer needs. The situation in argols continues to grow more serious insofar as American tartrate manufacturers are concerned, it was noted. Prices asked abroad have continued to advance substantially. Since argols are the raw materials used in the manufacture of tartaric acid and its salts, consumers of these compounds might see a price rise in the not too distant future. Argol costs have advanced to the point where tartrates manufacturers may be forced to further advance their schedules to meet higher raw material costs. In addition to the advance in raw materials, other manufacturing costs have remained as high as ever, it was pointed out.

Tuberculosis may soon be in the nature of a minor ailment if new chemotherapeutic treatments work out as anticipated, according to trade sources. It was recently announced that isoniazid, a compound used in the treatment of tuberculosis, has fulfilled in practice most of the early claims made for it in the initial stages of its use as a chemotherapeutic agent. A new compound called cycloserine has recently been hailed as possibly the most formidable drug to be used in the treatment of severe pulmonary tuberculosis. The drug was said to be derived from one of the streptomyces and was essentially a broad-spectrum anti-biotic. Further clinical testing was planned, prior to any manufacture of this compound on a commercial basis, it was said.

Imports of various drugs and fine chemicals continue to plague domestic producers although to a lesser degree than earlier this year. The slashing of domestic price schedules by manufacturers has had the desired effect of cutting down on the influx of imports generally but a variety of items continues to be offered at prices below domestic schedules, it was said.

Synthetic vitamin producers reportedly still feel competition from lower priced imported ascorbic acid (vitamin C) and thiamin (B_1) although it has diminished considerably since prices were cut drastically by domestic producers in September. Domestic saccharin producers have also been perturbed by offerings from abroad, it was said.

Agar—The spot market was routine, volumewise, it was said. There has not been too much buying of new crop material and prices have retained their steadiness, on the whole. Buyers in the spot market were reported to be holding back, awaiting a decline in replacement prices.

Argols—The market in Europe was reported to have strengthened considerably. With increased buying by Europe itself, there has been a corresponding advance in quotations made to the representative for American tartrate manufacturers. The current market was said to be anywhere from $33 to $35 per 100 kilos, on a 100 percent basis.

The outlook for tartrate consumers appears to be for at least a continuance of present price schedules and the imminent possibility that domestic manufacturers of tartaric acid and various salts, will be forced to advance their schedules when inventories of lower cost argols are exhausted.

Ascorbic Acid—Demand for ascorbic acid was reported to be running at fairly good levels. Supplies were adequate to accommodate current consumer needs and were expected to continue. Producers were reportedly anticipating a stepup in the demand for ascorbic acid with the coming of warm weather and the consequent increase in frozen food processing. Ascorbic acid in combination with citric acid is used as an anti-oxidant in the processing of frozen fruits and vegetables, it was noted.

Imports of ascorbic acid continue to be a source of concern in some quarters. Domestic manufacturers slashed prices last year in an effort to force out foreign competition and were successful to a considerable degree, it was said, but there was still some competition from this source.

Price Trends

Advanced

None

Reduced

Calciferol, cryst., 15c. per gram.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 19, 1954
67.12	67.12	67.17	71.93

(For Current Prices see Page 9)

Calciferol—Demand was reported to be at fairly good levels. Supplies were ample for current inquiry and expected to continue in the immediate future. Prices recently declined slightly, it was noted. In 1 to 10 kilo lots, the spot market was 60c. gram, a reduction of 15c. from previously quoted levels while smaller quantities were priced at 65c. per gram.

Cycloserine—This compound which was recently discovered, has been hailed as the latest and possibly most formidable drug in the armamentarium of anti-tuberculosis remedies. Cycloserine was said to have achieved impressive improvement in patients suffering from severe pulmonary tuberculosis as well as yielding good results in the treatment of stubborn infections of the genito-urinary tract. The drug was described as a broad spectrum antibiotic and is reportedly derived from one of the streptomyces, a fungus group. Should further tests bear out anticipations, plans were being made to manufacture it on a commercial scale, it was said.

Diethylstilbestrol — Demand was reported to be at routine levels. While there is some pharmaceutical usage of diethyl stilbestrol, a major source of consumption is in the caponization of chickens, it was said. It was further understood that considerable research was being directed toward the improvement of the efficiency of food conservation in feeder cattle, a development which emerged in the latter part of 1954.

The hormone was given in small doses in the feed, with the object of stimulating microbial population in the rumen, thus enabling the animals to do a better job in converting the feed ingredients into the nutrients required for meat production. It was significant that the use of diethylstilbestrol cut down the amount of feed necessary to achieve a given weight gain as compared with conventional feeding results. No traces of diethylstilbestrol were reported found in the meat of the animals fed on this diet. This factor was very important in light of the difficulties encountered years previous with poultry caponized with diethylstilbsetrol.

Isoniazid—In a recent meeting of tuberculosis experts, agreement was reached that isoniazid has proved to be the most effective drug used in the chemotherapy of tuberculosis. Used in combination with streptomycin or para-aminosalicylic acid, it was said to have surpassed in effectiveness the streptomycin-para-aminosalicylic acid program which has been in use for the past several years.

It was further contended by some that enough evidence had been gathered to make a reappraisal of the worth of administering isoniazid alone in certain types of cases. The employment of single drug therapy heretofore has been viewed skepitcally, because the first major drug, streptomycin, had proved of only limited value when used alone.

Menthol—The spot market continued at firm levels last week although no further advances in price was noted in the Brazilian material. According to trade sources, synthetic menthol also advanced thus further contributing to the bullish feeling in the market of late. The reports that Chinese menthol prices have advanced substantially in Europe was followed with an increase in the buying of Brazilian menthol by consumers in Europe.

Molasses—Negotiations for the 1955 Cuban molasses crop were still underway as of February 15, 1955, according to trade sources and it is expected that contracts will be signed this week by U. S. buyers. Sales of the current Cuban crop had been expected about one month ago.

Feed molasses prices were unchanged at most terminals during week ending February 15, 1955. The New Orleans blackstrap market was a shade weaker, with prices ranging from 9¾ to 10 (mostly 10) cents per gallon. Demand at New Orleans was moderate to good. East and West coast prices continued steady with Albany price at 12 cents per gallon. The cane blackstrap price at Los Angeles was $18.00 per ton. Supplies of blackstrap

For Late Market Developments, See Page 4

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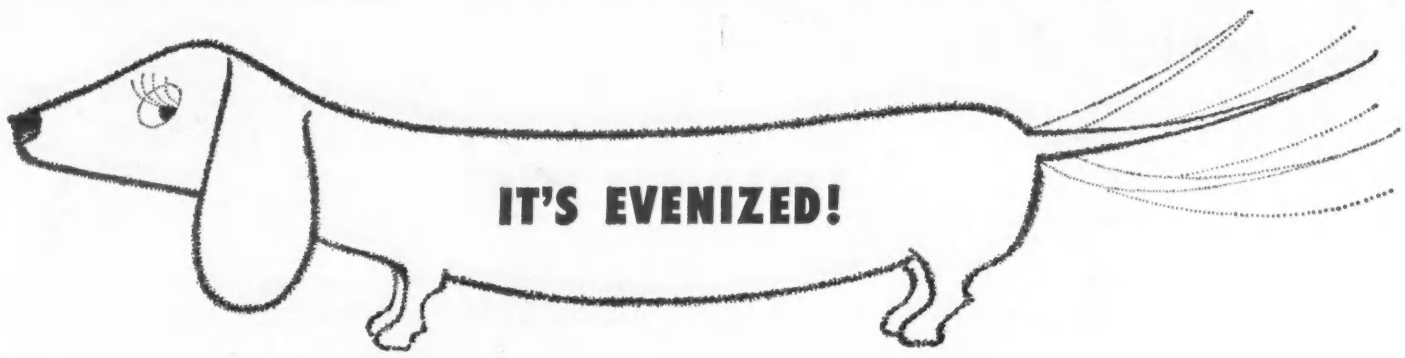

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were adequate at Savannah. Molasses purchases at most terminals have been on a hand-to-mouth basis with buyers reluctant to build up inventories. Citrus and hydrol molasses remained in limited supply with good to strong demand. Beet molasses demand continued moderate with supplies generally adequate.

Sulfa Drugs — Demand for the sulfa drugs was reported to be moving at good levels. There has been a notable resurgence in the popularity of sulfa compounds, according to trade sources. A basic reason behind the rise in demand for the sulfonamides was the marketing of these drugs in various combinations with other sulfas, and in some instances, antibiotics. There has been a rising awareness of the problem of increasing resistance of pathogenic bacteria to drug compounds which are used separately, and as a result, there has been a pronounced swing to the use of two or more drugs in a combinative form.

Botanicals

The spot market last week was about unchanged. Consumer demand was expected to move at steady levels and manufacturers were reportedly begining to anticipate contract requirements for the coming collection season. Stocks in the hands of botanical dealers were, on the whole, expected to prove adequate for consumer needs until the new crop is collected later this year. Of course shortages will continue in those items, collections of which were below average last year.

Senega root remains in tight supply with the spot market at very high price levels. Last year's crop was almost a complete failure due to excessively wet weather conditions which interfered with both the development and collection of the root. Wahoo root bark continues in short supply although demand has eased to some extent due to the high market price, it was said. Rauwolfia serpentina continues in short supply although the availability of reserpine has eased the pressure on rauwolfia serpentina root to some degree. The long range outlook was for production to remain behind consumer demand for some time.

The market abroad tended to be generally firm on shipment quotations. As a matter of course, foreign shippers frequently express bullish tendencies but the extent of consumer demand in the spot market is usually the determining factor in market prices. The market at origin in ipecac root has been exceedingly strong with supplies running behand orders on hand, it was said. Europe has been a heavy buyer of this item and as a result, the American market has been adversely affected.

Juniper berries continue in rather short supply. The quality and quantity of these berries has been below standard for some time. There appears to be less incentive on the part of shippers to offer this item. This was in line with the lack of interest in botanicals which has affected Central Europe production in recent years. True, montana arnica flowers remain virtually unobtainable. Prices on this item were exorbitant, according to trade sources. Cubeb berries also remained short.

Papain—The spot market in papain was unchanged last week. Supplies were reported to be ample for consumer requirements. According to informed trade sources, the quality of papain offered from origin varies to a considerable extent and although in many instances some material may appear to be considerably below the market price, in the long run it may prove more expensive due to low potency.

Rauwolfia Serpentina Root—While contract prices for rauwolfia serpentina have come down to some extent from the exorbitant levels attained earlier this year, supplies continue short of actual demand. Used in India for centuries in the treatment of certain types of mental and nerve disorders, the relatively sudden surge in demand for this botanical drug by pharmaceutical concerns both here and in Europe created a critical situation in India and consequently the government there set up a licensing system to control quantities exported. This system is still in operation, according to trade sources consulted. Of late there has been a considerable number of detentions by the FDA of shipments of rauwolfia which have proved to be of species other than serpentina.

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Anslinger, Hardt to Speak At Brooklyn College Forum

Harry J. Anslinger, commissioner of the Bureau of Narcotics, and Robert A. Hardt, vice-president of Hoffmann-La-Roche, Inc., as well as president of the American Pharmaceutical Manufacturers' Association, will speak at the March 1 session of the public health forum of the Brooklyn College of Pharmacy Alumni Association. Mr. Anslinger will speak on "The Pharmacist and the Federal Narcotic Law" and Mr. Hardt will have as his topic, "Increasing the Public's Esteem for Pharmacy." Also scheduled to speak is Dr. George Gallup, director of the Institute of Public Opinion, whose address will be entitled, "What the Public Thinks of Pharmacy."

At a March 8 session, the speakers will be Dr. Louis H. Bauer, secretary-general of the World Medical Association, whose topic will be "International Problems of Medicine and Pharmacy," and Dr. Paul C. Aebersold, isotopes chief of the Atomic Energy Commission, who will talk on "What Radioisotopes Mean to the Public, Medicine and Pharmacy."

Those who will address the third and last session on March 22 are Basil O'Connor, president of the National Foundation for Infantile Paralysis, who will give "The Story Behind the Salk Polio Vaccine," and John J. Toohy, executive vice-president of E. R. Squibb & Sons, division of Olin Mathieson Chemical Company, whose topic will be "Team Target—Better Health for Everyone."

The chairman for the March session will be Dr. Theodore G. Klumpp, president of Winthrop-Stearns, Inc., and the National Pharmaceutical Council; for the March 8 session, John J. McKeen, president of Chas. Pfizer & Co., and for the March 22 session, Dr. Herman C. Nolen, executive vice-president of McKesson & Robbins, Inc., and president of the National Wholesale Druggists Association.

Nuclear Energy Seen

—Continued from page 5

business man can keep up with developments in the atomic energy field.

Secretary of Commerce Weeks spoke briefly. He commended the interchange of ideas taking place between federal and state officials at the conference. He pointed out that all indications were that 1955 would be a year of good business conditions. He called attention to the spot areas of unemployment which he said deserved particular attention from state development agencies and pledged the full cooperation of the Department of Commerce in this work.

Lothair Teetor, assistant Secretary of Commerce for domestic affairs, told the meeting that prospects for national growth offer more than ordinary opportunities for all concerned with economic development. He said aggressive efforts on the part of development agencies would be required if they were to share in this growth.

Other speakers on the session included:—Carl F. Oechsle, deputy assistant Secretary of Commerce for domestic affairs; Clarence A. Davis, under Secretary of the Interior; Tracy Augur, director for urban planning assistantance, Urban Renewal Administration, Housing and Home Finance Agency; and John C. Hazeltine, commissioner, Division of Community Facilities and Special Operations, Housing and Home Finance Agency.

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BAYBERRY WAX—19 bgs, E Gumpert Corp, Capetown
BERGAMOT OIL—4 hf cs, Corn Exchange Bank, Messina
40 hf cs, Messina
BISMUTH—70 bxs, Cerro de Pasco Corp, Callao
CALCIUM SILICATE—342 cks, Meehanite Metal Corp, Marseille
CANDELILLA WAX—200 bgs, Wm Diehl & Co, Tampico
CAPROLACTAM—30 dms, Allied Chemical & Dye Corp, Hamburg
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275 bgs, R J Spitz, Rotterdam
200 bgs, Louis Furth, Rotterdam
400 bgs, Rotterdam
CARDAMOM SEED—39 cs, B C Ireland, Puerto Barrios
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1,760 bgs, A J Mills & Co, Wellington
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CASHEWNUT SHELL LIQUID—58 dms, Durez Plastics & Chemicals, Bombay
CASSIA—124 bls, A G Dunn, Amsterdam
622 pkgs, Borneo Sumatra Trading Co, Rotterdam
63 bls, M J Golombeck, Amsterdam
708 bgs, Rotterdam
241 bls, Rotterdam
173 pkgs, Rotterdam
2,590 pkgs, Amsterdam
CASTOR OIL—145 tons, Baker Castor Oil Co, Bombay
CELERY SEED—100 bgs, Fuerst Bros, Bombay
CETYL ALCOHOL—72 dms, Croda Inc, Liverpool
CHESTNUT EXTRACT—900 bgs, Barkey Importing Co, Genoa
200 bgs, American Dyewood Co, Marseille
130 tons, Chase National Bank, Naples
CHLOROPHYLL—20 dms, Airkem Inc, London
N-CHLOROACETIC ACID—418 dms, International Selling Corp, Marseille
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QUILLS—25 bls, Curacao Trading Co, Colombo
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CODLIVER OIL—100 dms, Scandinavian Oil Co, Oslo
173 dms, Arista Oil Products Co, Aalesund
CORIANDER OIL—11 cs, S B Penick & Co, Rijeka
SEED—300 bgs, Transit Export-Import Co, Rijeka
1,157 bgs, Karl H Landes & E Balint, Rijeka
910 bgs, Becker Mayer Seed Co, Rijeka
273 bgs, Berns & Koppstein, Rijeka
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874 bgs, Louis Furth, Rijeka
332 bgs, Transatlantic Commodities Corp, Casablanca
90 bgs, K I Litster, Casablanca
CORN SILK—28 bls, S B Penick & Co, Genoa
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419 bgs, Kozemi & Co, Khorramshahr
CUTTLEFISH BONE—87 cs, Tangier
DAMMAR GUM—112 bgs, O G Innes Corp, Singapore
DEXTRIN—1,724 bgs, Stein Hall & Co, Rotterdam
110 bgs, Rotterdam
DIMETHOXYANILIDE—1 ck, Rotterdam
DIMETHYL-m-AMINOPHENOL—1 cm, Rotterdam
EARTH COLOR—34 bbls, Fezandie & Sperrle, Bremen
EUCALYPTUS OIL—9 dms, Fritzsche Bros, Guayaquil
FENUGREEK SEED—170 bgs, K I Litster, Casablanca
FISHLIVER OIL—3 dms, Arista Oil Products Co, Yokohama
FISHMEAL—1,100 bgs, Jerome International Corp, Callao
FUEL OIL—333,011 bbls, Esso Standard Oil Co, Aruba
102,655 bbls, Hess Inc, Brighton
118,255 bbls, Shell Oil Co, Curacao
344,098 bbls, Paragon Oil Co, Punta Cardon
FUEL OIL—117,423 bbls, Metropolitan Petroleum Corp, Curacao
102,198 bbls, Paragon Oil Co, Curacao
97,598 bbls, New England Petroleum Corp, Curacao
200,156 bbls, Esso Standard Oil Co, Las Piedras
153,491 bbls, Hess Inc, Curacao
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GALBANUM GUM—175 bgs, Meer Corp, Khorramshahr
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LOCUST BEAN GUM—200 bgs, Morningstar Nicol, liverpool
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250 bgs, Morningstar Nicol, Portimao
150 bgs, Morningstar Nicol, Genoa
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LOGWOOD EXTRACT—10 cks, American Dyewood Co, Liverpool
MAGNESIA TRISILICATE—10 dms, Hudson Shipping Co, Liverpool
MAGNESITE—800 bgs, Globe Shipping Co, Trieste
MANGROVE BARK—4,182 bgs, Olson Sales Agency, Mocimboa De Praia
MANNITE—8 cs, Meer Corp, Palermo
MARJORAM—52 bls, R H Werthon, Marseille
MERCURY—137 flks, L H Keller & Co, Tampico
89 flks, Guaranty Trust Co, Vera Cruz
100 flks, Tampico
MOLASSES—500 tons, W R Grace & Co, Salaverry
MONTAN WAX—700 bgs, Strohmeyer & Arpe, Hamburg
MUSTARD SEED—200 bgs, Frank Tea & Spice Co, Rotterdam
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103 dms, National City Bank, Malaga
157 dms, Credit Suisse, Malaga
ORANGE OIL—10 cs, Van Ameringen Haebler, Kingston
PAPAIN—242 hf chts, Chas L Huisking & Co, Colombo
35 cs, Chas L Huisking & Co, Mombasa
PAPRIKA—290 bgs, Gallagher & Ascher, Alicante
10 cs, Gallagher & Ascher, Alicante
350 bgs, R F Downing, Alicante
50 bgs, M Rothschild, Alicante
415 bgs, J Weinstein, Alicante
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PEANUT OIL—210 tons, Rotterdam

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PECTIN—71 kgs, Jafbro Corp, Copenhagen
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410 bgs, Mincing Trading Corp, Cochin
80 bgs, C Czarinkow, Cochin
40 bgs, Otto Gerdau, Cochin
1,040 bgs, Virchand Panachand, Cochin
120 bgs, A G Dunn, Cochin
320 bgs, Dalamal & Sons, Cochin
40 bgs, East Asiatic Co, Cochin
80 bgs, Mutual Spice Co, Cochin
124 bgs, Borneo Sumatra Trading Co, Singapore
80 bgs, Chemical Bank, Alleppey
160 bgs, M Golodetz, Cochin
80 bgs, Irving Trust Co, Cochin
1,360 bgs, Alleppey
RED—160 bgs, Joan Holt & Co, Lagos
465 bgs, Standard Bank of S A, Lagos
282 bgs, Darrnhouwer & Co, Lagos
PETROLEUM, CRUDE—83,664 bbls, Cities Service Oil Co, Las Piedras
115,218 bbls, Cities Service Oil Co, Tuxpan
156,656 bbls, Esso Standard Oil Co, Las Piedras
154,906 bbls, Socony Vacuum Oil Co, Puerto La Cruz
PETROSELINI ROOT—13 bls, S B Penick & Co, Rijeka
PIMENTO—82 bgs, Kellys America Ltd, London
LEAF OIL—2 cmr, George Lueders & Co, Kingston
3 dms, Magnus Mabee & Reynard, Kingston
POLLACKLIVER OIL—50 cms, Peder Devold Oil Co, Yokohama
59 dms, Arista Oil Products Co, Yokohama
50 cms, Taub Hummel & Schnall, Yokohama
POLYETHYLENE—456 bgs, Kayson Rubber & Plastic Ltd, London
POLYISOBUTYLENE—121 dms, Nova Chemical Corp, Hamburg
POPPY SEED—100 bgs, Biddle Purchasing Co, Rotterdam
100 bgs, C M Van Sillevoldt, Rotterdam
250 bgs, Louis Furth, Rotterdam
100 bgs, R J Spitz, Rotterdam
333 bgs, C M Van Sillevoldt, Gdynia
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333 bgs, A Gronowitz, Gdynia
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168 bgs, Louis Furth, Gdynia
400 bgs, Rotterdam
PSYLLIUM SEED—195 bgs, Hartz Mountain Products, Bombay
154 bgs, Meer Corp, Bombay
HUSKS—947 bgs, T M Duche & Sons, Bombay
370 bgs, Prentiss Drug & Chemical Co, Bombay
240 bgs, Meer Corp, Bombay
POTASSIUM CYANIDE—108 dms, Aceto Chemical Co, Hamburg
PYRETHRUM EXTRACT—40 dms, McLaughlin Gormley King Co, Mombasa
FLOWERS—213 bls, Callao
QUEBRACHO EXTRACT—520 bgs, H Elkan & Co, Buenos Aires
QUINCE SEED—287 bgs, Meer Corp, Khorramshahr
RAPESEED—180 bgs, Catz American Co, Rotterdam
OIL—300 tons, Smith Weihman Co, Karlshamn
RED IRON OXIDE—670 bgs, C B Chrystal, Malaga
460 bgs, Reichard Coulston, Malaga
5 bbls, Hammill & Gillespie, Malaga
660 bgs, F L Kraemer, Bremen
RUTILE SAND—2,000 bgs, International Titanium Corp, Brisbane
RUTIN—3 dms, Millmaster Chemical Co, Melbourne
SANDALWOOD—534 bgs, W G Bush & Co, Madras
SARSAPARILLA ROOT—4 bls, Lo Curto & Funk, Kingston
SASSAFRAS OIL, ARTIFICIAL—25 dms, Lo Curto & Funk, Kobe
SCARLET BASE—4 dms, Hensel Bruckmann & Lorbacher, Rotterdam
SEEDLAC—500 bgs, Schwarb Bros, Bangkok
250 bgs, Haeusser Shellac Co, Bangkok
250 bgs, Bank of London & S A, Bangkok
250 bgs, Doran & Schmiedel, Bangkok
250 bgs, C H Timm, Bangkok
1,250 bgs, Borneo Sumatra Trading Co., Bangkok
250 bgs, Mac Lac Co, Bangkok
500 bgs, Colony Export Import Corp, Bangkok
250 bgs, Gillespie Rogers Pyatt, Bangkok
SERPENTINA ROOT—2 bgs, Frank Alexander Close & Co, Lagos
58 bgs, Leonhardt E Brush, Puerto Barrios
200 bgs, Treemond Co, Madras
112 bgs, Madras
SESAME SEED—560 bgs, Levy & Levis Co, Puerto Barrios
SHARKLIVER OIL—3 bbls, Collett Week Corp, Oslo
SHELLAC—222 dms, F H Paul & Stein Bros, Hamburg
SOAP BARK—668 bls, S B Penick & Co, Valparaiso
378 bls, Duncan Fox & Co, San Antonio
99 bgs, S B Penick & Co, Valparaiso
893 bls, S B Penick & Co, San Antonio
SODIUM ALGINATE—20 ctns, T M Duche & Sons, Oslo
10 dms, Visking Corp, Glasgow
CHLORITE—100 dms, Bremen
CYANIDE—350 dms, American Cyanamid Co, Liverpool
500 dms, Chemical Mfg Co, Liverpool
200 dms, American Cyanamid Co, London
SOLELIVER OIL—3 dms, Consumers Import Co, Yokohama
SPERM OIL—228 tons, Glasgow
700 dms, Scandinavian Oil Co, Pisco
STARCH—200 bgs, Rotterdam
TANKAGE—439 bgs, Tupman Thurlow, Wellington
439 bgs, Tupman Thurlow, Auckland
TAPIOCA FLOUR—1,094 bgs, Stein Hall & Co, Tjirebon
500 bgs, American Key Products, Bangkok
1,035 bgs, Internatio Rotterdam, Bangkok
2,000 bgs, Stein Hall & Co, Bangkok
4,000 bgs, Bangkok
THALLIUM METAL—3 cs, International Selling Corp, Marseille
SULFATE—1 cs, International Selling Corp, Marseille
TITANIUM ALUMINUM—10 dms, C Tennant Sons & Co, London
TOLU BALSAM—50 cs, Magnus Mabee & Reynard, Barranquilla
TRAGACANTH GUM—48 cs, Meer Corp, Khorramshahr
35 cs, V Simidian & Co, Khorramshahr
36 cs, American Inter Asian Trading Co, Khorramshahr
15 cs, Tragacanth Importing Corp, Khorramshahr
190 bgs, Amiran Co, Khorramshahr
42 cs, Khorramshahr
TRICHLOROETHYLENE—177 dms, Chemical Manufacturing Co, Liverpool
ULTRAMARINE BLUE—100 bgs, Chase National Bank, Antwerp
UREA, SYNTHETIC—6,000 bgs, Chemical Manufacturing Co, Liverpool
VALERIAN ROOT—80 bgs, S B Penick & Co, Bombay
VALONIA BEARDS—1,291 bgs, M E Bensignor, Canakkale
857 bgs, Barkey Importing Co, Izmir
CUPS—5,030 bgs, Barkey Importing Co, Izmir
1,423 bgs, First National Boston, Izmir
VANILLA BEANS—10 cs, Quon Quon Export Co, Semarang
10 cs, Semarang
WOOL GREASE—304 dms, Hummel Chemical Co, Bremen
38 dms, Olson Sales Agency, Bluff
100 dms, N I Malmstrom, Manchester
WAX—20 dms, Alexander & Co, Liverpool
ZINC CHLORIDE—40 dms, Riches Nelson, Antwerp
ZINC-AMMONIUM CHLORIDE—12 dms, Lo Curto & Funk, Liverpool
4 bbls, Lo Curto & Funk, Liverpool
ZIRCON SAND—1,985 bgs, Titanium Alloy Manufacturing Co, Brisbane
1,200 bgs, International Titanium Corp, Brisbane

Baltimore

BONEMEAL—1,215 bgs, American Agricultural Chemical Co, Bombay
CARAWAY SEED—175 bgs, Baltimore Spice Co, Rotterdam
CASSIA—350 pkgs, Amsterdam
CRESYLIC ACID—100 dms, S Shapiro, Rotterdam
IRON OXIDE, RED—2,208 bgs, American Chemical & Pigment Corp, Malaga
MAGNESIUM CHLORIDE — 300 bgs, Mercantile Metal & Ore Corp, Hamburg

Boston

SPERM OIL—300 dms, Scandinavian Oil Co, Pisco
278 dms, Merchants National Bank Boston, Pisco

Los Angeles

BONEMEAL—1,200 bgs, W Harris & Co, Manchester
1,100 bgs, Atkins Kroll & Co, Alexandria
CASSIA—32 bls, Rotterdam
COCONUT OILCAKE—2,000 bgs, Internatio Rotterdam, Cebu
COPRA, 884 long tons, Procter & Gamble Co, Cebu
1,000 long tons, Pacific Vegetable Oil Corp, Davao
500 long tons, Penang
CAKE—1,200 bgs, Balfour Guthrie & Co, Cebu
4,800 bgs, Pacific Vegetable Oil Corp, Cebu
FISHLIVER OIL—100 dms, Chase National Bank, Yokohama
2 dms, Universal Foreign Service Co, Yokohama
PEATMOSS—1,000 bls, H M Newhall & Co, Rotterdam
550 bls, H V Nootbaar & Co, Bremen
500 bls, Gelico Inc, Bremen
1,300 bls, H V Nootbaar & Co, Rotterdam
PEPPER, RED—60 bgs, S L Jones & Co, Kobe
100 bgs, W R Grace & Co, Yokohama
PETROLEUM, CRUDE—15,611 tons, Douglas Oil Co, Cabo Blanco
SHARKLIVER OIL—50 dms, Yokohama
SHELLAC—40 bgs, Calcutta
WHITING—3,800 bgs, N H Weitzner, Antwerp

Norfolk

PEANUT OIL—561 tons, Bunge Canadian Trading Co, Bombay

Philadelphia

ASBESTOS FILER—3,520 bgs, Chas Kurz Co, Beira
580 bgs, A Gibbs Co, Durban
3,000 bgs, Johns Manville Corp, Capetown
500 bgs, Ovimpex Inc, Durban
1,040 bgs, John Holt & Co, Lourenco Marques
BONEMEAL—4,961 bgs, Ralli Bros, Karachi
CASEIN—1,167 bgs, National Casein Co, Auckland
GYPSUM—11,062 tons, U S Gypsum Co, Hantsport
MOLASSES—1,255,885 gals, Manati
NAPHTHALENE—3,000 bgs, Chas Kruz Co, Gdynia
2,113 bgs, Rotterdam
629 bgs, Antwerp
PEATMOSS—525 bls, E Dunwoody, Bremen
PETROLEUM, CRUDE—113,207 bbls, Texas Co, Las Piedras
20,936 bbls, Texas Co, Sumatra
173,938 bbls, Texas Co, Rastanura
113,221 bbls, Texas Co, Covenas
106,689 bbls, Atlantic Refining Co, Banias
481,158 bbls, Atlantic Refining Co, Pamatacual
227,697 bbls, Atlantic Refining Co, Puerto La Cruz
460,280 bbls, Gulf Oil Corp, Mena Al Ahmadi
RUTILE SAND—9,960 bgs, Chas Kurz Co, Brisbane
SUMAC LEAVES—198 bls, John Holt & Co, Palermo
UREA—1,000 bgs, Nyles Trading Co, Genoa
WATTLE BARK—750 bls, Mossel Bay
ZIRCON SAND—2,174 bgs, Chas Kurz Co, Sydney
10,000 bgs, Balfour Guthrie, Brisbane
3,950 bgs, Holland Whitehall Co, Brisbane
3,324 bgs, Foote Mineral Co, Brisbane
3,128 bgs, M W Hardy & Co, Brisbane
5,969 bgs, Brisbane

San Francisco

AGAR—6 bls, Berelson Inc, Kobe
AMMONIUM CHLORIDE—40 bgs, C M C Chemicals, Liverpool
ASBESTOS FIBER—736 bgs, Thornley & Pitt, Durban
240 bgs, Keasby & Mattison, Lourenco Marques
1,840 bgs, Keasby & Mattison, Biera
CASEIN—700 bgs, Royal Bank of Canada, Buenos Aires
100 bgs, F H Paul & Stein Bros, Buenos Aires
362 bgs, Buenos Aires
CELERY SEED—89 bgs, Kellys America Ltd, Bombay
COPRA—250 tons, Pacific Vegetable Oil Corp, Iloilo
300 tons, American Trust Co, Iloilo
1,000 tons, Cargill Inc, Iloilo
1,000 tons, American Trust Co, Cebu
1,150 tons, Cargill Inc, Cebu
500 tons, Cebu
GINGER ROOT—30 bgs, Salina Cruz
LAUREL LEAVES—35 bls, Hismoco American Co, Genoa
LOCUST BEAN GUM—50 bxs, Stein Hall & Co, Genoa
OLIVE OIL—301 dms, A Giurlani & Bro, Leghorn
PAPRIKA—50 bgs, McClintock Stern Co, Marseille
100 bgs, A Schilling & Co, Marseille
50 bgs, S H Tyler & Son, Marseille
35 bgs, Spice Islands Co, Marseille
50 bgs, Atkins Kroll & Co, Marseille
PEATMOSS—500 bls, Gelico Inc, Bremen
300 bls, Pan Western, Bremen
PETROLEUM, CRUDE—482,802 bbls, Standard Oil Co, Sungai Pakning
171,974 bbls, Texas Co, Sungai Pakning
SODIUM BICARBONATE—600 bgs, C M C Chemicals, Liverpool
BICHROMATE—20 dms, Durban
TANKAGE—420 bgs, Tupman Thurlow, Buenos Aires
TUNG OIL—97 tons, Borneo Sumatra Trading Co, Buenos Aires
UREA, SYNTHETIC—500 bgs, C M C Chemicals, London

Benzoate Publication Is Offered

n-Butyl benzoate is described in a new four-page technical bulletin released by Carbide & Carbon Chemicals Company, New York, a division of Union Carbide & Carbon Corporation. Information is given on its properties; shipping container contents; resin solubilities; and its applications as a solvent, extractant, and intermediate for benzoate esters and alkyd resins. Copies of the bulletin (F-8109) are available from Carbide at 30 East 42nd street, New York 17.

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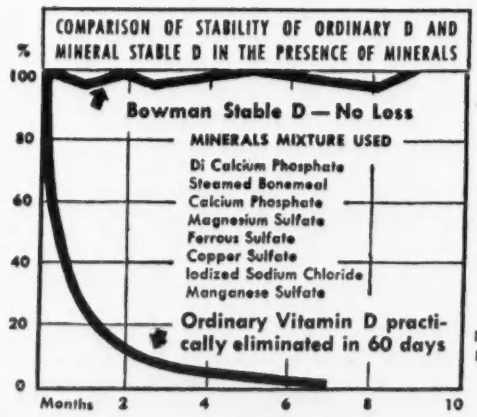

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Cutter Acquires for Cash Missouri Biologicals Firm

Cutter Laboratories, Berkeley, Calif., has purchased, for cash, the veterinary biological firm of Ashe Lockhart, Inc., Kansas City, Mo.

Ashe Lockhart, Inc., a twenty-eight-year-old firm, sells a complete line of veterinary biological products to graduate veterinarians only. It has a manufacturing laboratory in Kansas City and also operates a large serum farm near the new Kansas City airport. Cutter Laboratories and Ashe Lockhart, Inc., will continue to operate as separate organizations.

S. C. Johnson & Son Establishes New Maintenance Sales Organization

A separate maintenance sales organization has been established by S. C. Johnson & Son, Inc., Racine, Wis. James W. Barrett, jr., former merchandising manager for maintenance products, has been named to head the new department. In his new position he will direct all merchandising and selling of maintenance products in the United States. Formerly these functions were under joint direction with household products. E. J. Grant has been named maintenance products field sales manager. He formerly was national accounts manager. Both will make their headquarters in Racine.

Narcotic Drugs Listed

—Continued from page 4

morphine or salt thereof does not exceed four grains per fluid ounce or one-half grain per dosage unit of the compound.

6. Any compound of dihydrocodeinone ("Hydrocodone," "Dicodid," "Hycodan," "Orthoxicol") or of any salt thereof with an equal or greater quantity of any isoquinoline opium alkaloid or salt thereof, where the content of dihydrocodeinone or any salt thereof does not exceed two-thirds grain per fluid ounce or one-twelfth grain per dosage unit of the compound.

7. Any compound of dihydrocodeinone ("Hydrocodone," "Dicodid," "Hycodan") or any salt thereof with other active, non-narcotic ingredients which confer upon the compound medicinal qualities other than those possessed by the dihydrocodeinone or salt alone, where the content of dihydrocodeinone or of any salt thereof does not exceed two-thirds grain per fluid ounce or one-twelfth grain per dosage unit of the compound.

8. Any compound of dihydrohydroxycodeinone ("Oxycodone," "Eucodal," "Nucodan," "Percodan") or any salt thereof with other active, non-narcotic ingredients which confer upon the compound medicinal qualities other than those possessed by the dihydrohydroxycodeinone or salt alone, where the content of dihydrohydroxycodeinone or of any salt thereof does not exceed two-thirds grain per fluid ounce or one-twelfth grain per dosage unit of the compound.

9. Any compound of ethylmorphine ("Dionin") or of any salt thereof with other active, non-narcotic ingredients which confer upon the compound medicinal qualities other than those possessed by the ethylmorphine or salt alone, where the content of ethylmorphine or any salt thereof does not exceed two-thirds grain per fluid ounce or one-twelfth grain per dosage unit of the compound.

10. Any compound of opium with other active non-narcotic ingredients which confer upon the compound medicinal qualities other than those possessed by the opium alone which compound is designed and suitable for topical application only, where the content of opium does not exceed thirty grains per ounce of the mass or liquid, or one grain per dosage unit of the compound.

11. Any compound of methadone ("Amidone," "Adanon," "Dolophine") or of any salt thereof with other active, non-narcotic ingredients which confer upon the compound medicinal qualities other than those possessed by the methadone or salt alone, where the content of methadone or any salt thereof does not exceed two-thirds grain per fluid ounce or one-twelfth grain per dosage unit of the compound.

Protective Coatings Materials

Dioctyl phthalate was found to be in a firmer position, because of increasing tightness in supplies of phthalic anhydride. Some makers of DOP have reacted by expanding their inventories of phthalic anhydride, which in turn has added to the tighter supply outlook. Producers of the plasticizer have been shipping all of their output, but as yet have not had difficulty in meeting requirements. Prices were considered quite firm at present levels for DOP and for other phthalates as well. Producers of epoxy resins reported a good demand. Growth of market demand has been rated as satisfactory and has continued, it was noted, in a stepwise fashion because the entry of any one big-scale buyer into the market has caused a proportionately large effect.

Prices for prime pigments remained firm at former listings. No perceptible decline in sales for copper oxides was noted following the price advances early in the month. With copper in very tight supply, all related pigments were quite firm and were expected to become more so before they eased. January sales' totals for carbon blacks made a good showing. Consumers appeared to be shipping finished products at a good rate and were expected to reorder actively. The full impact of spring paint sales' demand has not yet been felt among pigment makers but was expected in a matter of weeks.

The first break in sellers' attitude at the source was felt in the shellac market as a result of favorable estimates of the coming crop. Declines of up to 5c. per pound were reportedly effected in offerings of futures from Calcutta. The easing in futures had no effect on currently listed quotations. Casein continued firm, with material in the Argentine held in strong hands. Many buyers, however, held off with their purchases in the expectation of lower quotations in the coming weeks. As yet, Argentina met no competition from other sources. Prices for Singapore dammar gum, No. 1, advanced as spot supplies dwindled. Most of the best grades of copals and dammars were moving into a tighter supply position, because of active buying on the part of consumers in this country and because of large purchases by other countries, notably Australia and Japan.

Price Trends

Advanced

Gum, dammar, Singapore No. 1, 3c. per lb.

Reduced

None

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Feb. 19, 1954
97.13	97.12	97.08	93.78

(For Current Prices see Page 9)

Prime Pigments

Aluminum Powder, Paste—Net shipments of aluminum powder, atomized and grained, during December 1954 totaled 1,861,000 pounds, it was reported by the Department of Commerce. This compares with 1,909,000 pounds during the previous month. Shipments of flaked powder in December came to 284,000 pounds, compared with 338,000 pounds in November, while paste shipments in December amounted to 860,000 pounds, compared to 849,000 during the previous month.

Antimony Oxide—Material was reported to be moving well by most suppliers over the past week. Demand was not exceptionally heavy, but held up to the level of the recent past. No price changes were currently being ontemplated in the trade, it was reported. Production has been amply sufficient for all consumer needs.

Bone Black—Sales demand was reported as just about up to expectations in the trade, but has not been setting any new records in the past weeks. As a relatively small item, bone black was expected to remain without special feature in the immediate future. Production was considered quite ample for present demands.

Cadmium Colors — Shades using selenium were in tight supply, with some suppliers reporting a slight worsening of the already critical situation. Selenium supplies remained very difficult for civilian consumers to obtain and some makers of the colors reported being about sixty days behind on shipments. The only alternative to the present lack of ready material was for pigment makers to purchase the metal at very high prices, which would eventually have to be reflected in the prices paid by the consumer.

Carbon Black—January sales' totals for carbon blacks made a very good showing, according to a consensus of opinion in the producing industry. A slight dip was expected during the present month, partly because of the smaller number of days. However, consumers appeared to be shipping finished products at a good rate and were expected to reorder actively, for the present, at least.

Copper Oxides—There has been no perceptible decline in sales since the price advance early in the month, it was stated by sources in the industry. All related materials maintained a strong aspect over the week because of firmness in the metal. Copper pigments moved to a steady demand, with any change in volume expected to be in an upward direction.

Synthetic Iron Oxides—Sales were said to be quite active for synthetic iron oxides during January, with most producers expressing satisfaction with the totals. The sales demands encountered during that month were well diversified among consumers. Indications were that February sales volume would not be far behind January's. Prices were considered quite firm at present levels. No changes were contemplated by makers at the present time.

Zinc Pigments—Sales of zinc oxides were reported a bit on the slow side so far this month. Manufacturers expected a pickup in consumer interest once spring paint sales hit their stride, but felt that it would be three more weeks before any marked increase from this direction would be felt. Prices for oxides held steady at the levels reached when quotations changed in October of last year. Zinc dust was stable throughout the week, following the steady tone in the metal.

Synthetic Resins

Epoxys—Producers reported a good demand for this material from most consumers, with no particular emphasis felt from any single consuming line. Growth of market demand has been rated as satisfactory. In this connection, it was pointed out that growth has been in a step-wise fashion, because the entry of any one big-scale buyer into the market has caused a proportionately large effect to be felt by those making the material. No price changes were under consideration by the makers, at the present, it was reported.

Urea-Formaldehydes — Demand from users in the paper coating industry have remained quite active. Other consumers have also maintained a good demand. Most manufacturers at the present saw indications of a satisfactory quarter, both in regard to sales to regular users and to new consumers, as well. Prices remained firm at previous listings.

Lacquer Materials

Dibutyl Phthalate—Firmness in price listings characterized the market for dibutyl, as well as for other phthalates. Demand has edged forward a bit, according to some in the industry. At the same time, production has been only about ample for consumption, leaving a fairly well balanced supply situation at the present and a good outlook for the weeks just ahead.

Dioctyl Phthalate—Material was reported moving well to a good consumer interest. A good deal of firmness has

Protective Coatings Shipments, Output: Dec.

	Factory shipments—Dollars		†Reported production—Gallons	
	Dec.	Nov.	Dec.	Nov.
Trades sales products: paint, varnish and lacquer	$51,934,000	$59,684,000	15,341	14,765
Industrial sales products, total	41,950,000	43,448,000	15,182	14,879
Paint and varnish	30,534,000	31,424,000	11,740	11,077
Lacquer	11,416,000	12,024,000	3,442	3,802
Totals				
Total sales, January-December—$1,361,145,000.	$93,884,000	$103,132,000	†34,270	†33,447

† Detail does not add to total because some respondents reported only total production which was not allocated either to trade or industrial sales products.

For Late Market Developments, See Page 4

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come into evidence because of the tightness of phthalic anhydride. Some makers of DOP have reacted by extending their inventories of phthalic anhydride, which in turn has added to the tighter supply outlook. Producers of plasticizers have been shipping all of their output, it was reported, but as yet have not had difficulty in meeting requirements. Prices were considered quite firm at present levels in the industry, and no word concerning any change was heard during the past week.

Tributyl Phosphate—Earlier price listings were steady and sources in the trade stated that no changes were currently in the making. Demand has held up quite well since the first of the year, as was the case for other phosphates as well, it was stated.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. Feb.11	Mon. Feb.14	Tues. Feb.15	Wed. Feb.16	Thur. Feb.17
Drums—					
K	...	...	$8.20	...	...
N	...	$8.15	...	...	...
WG	$8.25	8.19	8.41§	...	...
WW	8.29	8.31§	8.33§	$8.32§	...
Bags—					
K	...	...	8.00	...	...
M	...	...	...	7.97	...
N	8.40	...	...	...	...
WG	...	...	...	...	$8.35
WW	8.65	...	8.65	...	...

Tankcars (for week ended February 12)—K or better, $7.85; M, $7.83; N, $8.25

Sales, USDA				
451*	602*	774*	910*	...

New York
(per 100 lbs., c.l., Friday)
B through M $9.10, N $9.15, WG $9.20, WW $9.35

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.559§	...	.568	.5675	...
Sales	20.000¶	...	5.000	8.000¶	...

New York, Friday, per gal. 7 lbs., tankcars, 62½c., l.c.l. 73c.

*Drums equivalent. †Tankcars. ¶Gallons. §Average price.

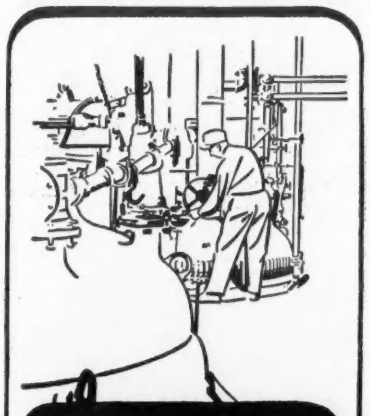
Natural Resins

Gums—Dammars and copals continued quite firm. Active buying in this country has put most of the better grades into a position of tight supply. Demand from the paint, varnish and lacquer trade has been good, but has remained fairly steady. Demands from these sources are usually filled steadily throughout the year, it was pointed out, and do not run to seasonal increases and decreases. At the present, competition for available supplies of gums on the part of consumers in other countries, notably Australia and Japan, has continued to have a firming influence on the market. Singapore No. 1 was raised in price to a level of 43c. to 44c. per pound, an advance of 3c. per pound over the former range.

Shellac—The first break in sellers' attitude at the source has been felt in the market, as a result of the good estimates of the coming crop. Declines of up to 5c. per pound were effected in offerings of futures from Calcutta. The easing in futures has had no effect on currently listed quotations, which were unchanged and firm. With the new crop not due until April, however, further reports on the probable size would have additional influence on the market.

Miscellaneous Materials

Casein—Stock in Argentina were reported to be in firm hands. The market in this country continued on a very steady basis and was expected to remain so for the immediate future, at least. In the meantime, however, many consumers are holding off with their purchases for as long as possible, in the hope of catching prices on the decline.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Nuodex General Sales Mgr.

William J. Houston has been named general sales manager of Nuodex Products Company, Newark, N. J., a subsidiary of Heyden Chemical Corporation. Mr. Houston, who joined Nuodex in 1946, has been manager of the paint and varnish division since 1953. He was regional sales manager from 1949 to 1953 and a sales representative from 1946 to 1949.

Oil Trades Association Plans March 25 Meeting

The Oil Trades Association of New York will hold its annual meeting and election of officers March 15 at the Waldorf-Astoria hotel, New York.

Following are the nominees on this year's slate:—President, Gordon L. Benjamin, Gulf Oil Corporation; vice-president, W. C. Hardesty, Acme-Hardesty Company; secretary, Joseph C. Smith, Smith-Weinman Company, and treasurer, Dart E. Hoffman, Tide Water Associated Oil Company.

Those nominated for directorships include.—Mr. Benjamin; J. H. Blakney, Colgate-Palmolive Company; H. E. Brandli, Cities Service Oil Company; W. Robb Cook, Hudson Oil Company; Walter P. Hamilton, Standard Oil Company of N. J.; Mr. Hardesty, Joseph W. Hart, H. Hentz & Co.; R. S. Hebert, J. H. Redding, Inc.; Mr. Hoffman; A. H. Irelan, Alliance Oil Corporation; B. H. Morris, Freedom Valvoline Oil Company; Chester J. Skidmore, Socony-Vacuum Oil Company, and Mr. Smith.

Trade Briefs

Hercules Powder Company, Wilmington, Del., has announced the availability of a technical report on "Dresinol" resin.

E. Gordon Crockett, formerly vice-president of Chas. Page & Co., both in New York and London, England, has joined Hollingshurst & Co., New York.

Harry E. Davis, jr., vice-president of the Reardon Company, St. Louis, Mo., has been re-appointed a member of the technical education committee of the National Paint, Varnish and Lacquer Association.

American Resinous Finishes Labs Remodeling Program

American Resinous Chemicals Corporation has announced the completion of a program of remodeling affecting all its laboratories at the Peabody, Mass., plant. The new laboratory area includes major work space for resin and plastic emulsions, solutions and hot melts; a constant temperature room; special work areas for solvent adhesives and coatings containing pilot plant processing and churning equipment; a sample room; and a conference room.

N.Y. PVLA Is Organizing Year's Clean-Up Campaign

The New York Paint, Varnish and Lacquer Association has announced that it is formulating plans for this year's Clean-Up, Paint-Up, Fix-Up campaign and that Walter M. Clark has accepted the chairmanship of a general citizens' committee. Robert F. Wagner, mayor of New York, through the city's Department of Commerce, has endorsed the campaign and promises the collaboration of the city authorities.

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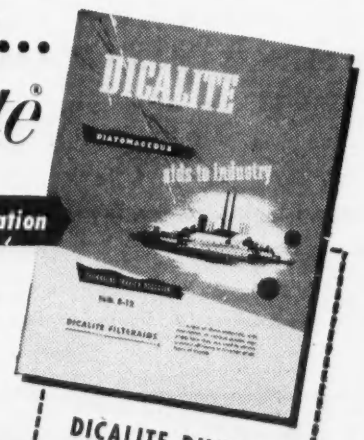

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Archer-Daniels Names Plasticizers Dep't Head

Archer-Daniels-Midland Company, Minneapolis, Minn., has appointed Robert S. Mathews manager of a newly-formed vinyl plasticizer department. Mr. Mathews will have charge of the sales and product development work on this group of products.

At the same time, Mr. Mathews announced the development of a new-low temperature plasticizer. In order to fill the anticipated demand for the plasticizer and similar products in the development stage, Archer-Daniels is doubling the capacity of its plasticizer plant at Decatur, Mr. Mathews said.

India to Buy Heavy Water For Reactor Near Bombay

Lewis L. Strauss, chairman of the Atomic Energy Commission, announced last week that AEC has agreed to the request of the Government of India for the sale to that country of ten tons of heavy water to be used in a research reactor to be located near Bombay.

"I hope the sale of this heavy water to India is only a first important step in a broader collaboration in this field," chairman Strauss said. "It is in keeping with the program of the United States in developing arrangements with friendly nations to promote the peaceful uses of atomic energy as announced by Eisenhower in his United Nations speech."

Bids Wanted

Aqua ammonia, 43,928 lbs., inv. 883, Mar. 3, Gen. Stores Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

DDT, 30,000 lbs., inv. 268, Feb. 25, Navy Purchasing Office, 3rd Ave. and 29th St., Bklyn. 32, N. Y.

Herbicides, 1,500 gals., inv. 8485, Feb. 23, Gen. Serices Adm., Fed. Supply Service, Denver Fed. Center, Denver 2, Colo.

Lindane, 35,000 gals., inv. N 140-271-B, Feb. 28, Navy Purchasing Office, Navy Dept., Naval Supply Activities, Bldg., No. 1, 3rd Ave. & 29th St., Bklyn. 32, N. Y.

Monosodium glutamate, 3,000 1-lb. cans, inv. 189-167, Feb. 23, Navy Purchasing Office, Naval Supply Center, Norfolk, Va.

Paint, 320 gals. synthetic gloss enamel, 890 gals. interior cellulose nitrate lacquer, 745 gals. camouflage paint, inv. 34, Feb. 23, USAF Logistic Control Group, Oakland, Calif.; 700 gals. hot lusterless, olive-drab lacquer, inv. 339, Feb. 23, 1,000 gals. floor and deck enamel, inv. 341, Feb. 23, Contracting Officer, Aberdeen Proving Ground, Md.; 1,296 ½ pt. cans pigment-in-oil paint color, 552 qts. pigment-in-oil tinting color, 792 qts. pigment-in-oil color 1D lampblack, inv. 3G-57411-R, Feb. 25, 732 gals. thinner for lacquer and dope of the spraying type, 2,500 gals. paint thinner, inv. 3-G-57406-R, Feb. 23, 816 gals. interior varnish, inv. 3G-57379-R, Feb. 25, 1,400 gals. latex base paint, 1,000 gals. resin base paint, inv. 3G-57852-R, Feb. 28, Gen. Service Adm., Business Seervice Center, 7th & D Sts., S.W., Washington 25, D. C.

Sodium thiosulfate, 113,000 lbs., inv. 2B-57670-R, Mar. 4, Gen. Service Adm., Business Service Center, 7th & D Sts., S.W., Washington 25, D. C.

Strontium nitrate, 21,900 lbs., grade A or B, Glidden, Ga.; inv. 600-726, March 4, Navy Purchasing Office, Navy Dept., Tempo "D" Bldg., 4th & Independence Ave., S.W., Washington 25, D. C.

Hollander Trading Formed

Hollander Trading Corporation, with offices at 154 Nassau street, New York, has been organized with Heinz Levi as president. The firm will deal in essential oils, aromatic chemicals and medicinal roots. Mr. Levi, who formerly handled these products for Herman Hollander, Inc., is being assisted by Robert E. Gould.

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Essential Oils, Aromatics, Flavorings

All the price changes noted in the essential oils market last week were upward. Bay oil continued to advance, reflecting higher shipping quotations from origin. Puerto Rican oil was up 10 cents per pound and West Indian quality, 20 cents. Lime oil was reported to be moving at a higher rate with the spot market advancing 20 cents per pound on both Mexican and West Indian qualities. Demand for lime and other citrus oils was expected to seasonally pick up in the near future, it was said. Sandalwood oil advanced rather sharply on spot due to further tightening in supplies. Spot quotations were up 50 cents per pound. Oil of lavandin moved higher, advancing 20 cents per pound and expected to go higher in the future since this year's crop was reported to have been way below normal size.

Camphor, citronella, petitgrain, cedarwood, ocotea cymbarum and artificial sassafras oils remained unchanged but very firm. The lessening of tension in the Far East has halted the steady rise in price of oils from that area, temporarily, at least. Cedarwood oil remained very firm.

The seeds and spices market was relatively quiet, insofar as price changes were concerned. There were about an equal number of price advances and declines with a 20 cent hike in decorticated, Guatemalan cardamom marking the largest price advance in this group. The increase marked the first price change in that item this year, it was noted. Fancy, bold cardamom was advanced 5 cents per pound. Also advanced were Ceylon cinnamon No. 2 and Moroccan fenugreek seed, the latter being an item which changes infrequently.

On the decline, Dutch caraway seed was off ¼ cent while the "0000" grade of Ceylon cinnamon declined 2 cents per pound in contrast to the 1 cent advance in the No. 2 grade reported above. Black pepper was off 3 cents and white, 5 cents. East Indian nutmegs advanced 1½ cents while both qualities of pimento declined 1 cent per pound. Vanilla beans were unchanged but quite firm in face of high shipping quotations from origin.

Essential Oils

Bay—The market continued to firm as was evidenced by further price advances last week by some dealers. The current market ranged from $1.85 to $2.20 on the 50-55 percent grade and from $2.10 to $2.50 per pound on the 55-60 percent grade. This constituted a 10c. advance on the former and 20c. on the latter.

Bergamot—There were reports that bergamot oil prices were being shaded below the $9.75 minimum quoted the preceding week. Demand was fair, on the whole and supplies ample for consumer needs.

Camphor—The market held firm and unchanged last week. It appeared that consumers can expect no plentitude in supplies of this oil for some time into the future, if ever. Since world demand for natural camphor has declined far below former levels with little likelihood of ever again achieving former levels, the production of camphor oil will continue substantially below consumer needs.

Citronella—Citronella held at very firm levels last week. The temporary letup in tension concerning the invasion of Formosa has had the effect of halting the upward spiral in citronella prices. Consumer resistance to the high prices currently quoted has had somewhat of a tempering effect upon prices also, it was said.

Geranium—The spot market firmed considerably in light of news from origin to the extent of this year's crops. Both Bourbon and Algerian types of geranium oil were reported to be growing scarcer. Some dealers advanced spot prices after receiving higher replacement quotations from origin. According to reports received from abroad there is very little stock available in Algeria at the present time and the few holders of small stocks are being pressed to sell by the local brokers. Prices have been going up every day and it is the general opinion there that between now and the new crop the price of $28.50 per kilo will be easily reached. The lack of available spot goods and also the perspectives for a bad crop are the reasons for current prices. Prices in the last two years did not cover the expenses of the distillers and therefore no new plantations were made, it was said. If production is to be maintained at a reasonable level it would be necessary for prices to hold in the vicinity of $28.50 to $29 and unless prices are in that range it was considered doubtful that cultivation and distillation of geranium will continue.

Lavandin—The spot market advanced 20c. last week and was quoted at $2.70 to $4.85 per pound. The crop this year was estimated at some 55-60 tons, about half average size, it was said. Prices were expected to continue to advance since the new crop is several months hence.

Lime—The spot market appeared to be firming to some degree and an advance of 20c. on both the Mexican and West Indian qualities was noted. The current market ranged from $3.50 to $4.75 on both these qualities. The approach of warmer weather was expected to see consumption start to climb.

Lemon—The market was about unchanged although more buying activity was noted in some quarters. Supplies were ample and prices steady.

Sandalwood—The spot market advanced 50c per pound and was quoted at $12.00 to $14.50 per pound. Supplies were tight, it was noted.

Aromatic Chemicals

Anethole—Supplies continue in a tight position while demand runs at good levels in view of the virtual unavailability of anise oil. Prices were quite firm.

Citral—The market was firm in view of the high price of lemongrass oil, the raw material from citral is extracted. The trade continues to eagerly anticipate the commercial appearance of synthetically made citral. Consumption of citral continues at steady levels in view of the demand from the pharmaceutical industry.

Miscellaneous

Caraway Seed—The spot market declined ¼c. per pound last week. Current quotations ranged from 19¾c. to 20c. per pound.

Cardamom Seed—On the spot market, quotations advanced 5c. per pound last week on fancy bold quality. The current price was $3.95 per pound. Decorticated Guatemalan cardamom was up 20c., at $2.10 per pound.

Fenugreek Seed—Moroccan fenugreek seed advanced 1c. per pound in the spot market. The current price was 8½c. per pound.

Nutmeg—East Indian nutmeg declined 1½c. per pound last week and was quoted at 42½c. to 44c. per pound. West Indian quality was unchanged.

Paprika—Spot prices held unchanged last week. To date, imports are running about the same as last year. However,

For Late Market Developments, See Page 4

Price Trends

Advanced

Cardamom seed, fancy, bold, 5c. per lb.
decorticated, Guatemalan, 20c. per lb.
Cinnamon, Ceylon #2, 1c. per lb.
Fenugreek, seed, Moroccan, 1c. per lb.
Oil, bay, Puerto Rican, 10c. per lb.
West Indian, 20c. per lb.
Lavandin, 20c. per lb.
Lime, Mexican, 20c. per lb.
West Indian, 20c. per lb.
Sandalwood, 50c. per lb.

Reduced

Caraway seed, ¼c. per lb.
Cinnamon, "0000", 2c. per lb.
Nutmeg, East Indian, 1½c. per lb.
Pimento, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 19, 1954
135.89	135.73	136.03	145.77

(For Current Prices see Page 9)

Imports Detained by FDA

Week Ended February 11

New York

Ammi Visnaga Seed, 100 bags: insect infested.
Black pepper (10 lots), 842 bags: moldy.
Chillies (2 lots), 213 bags: filthy.
Cardamon seed, 54 cases: filthy.
Cassia (22 lots), 1,895 bags: filthy.
Cloves (6 lots), 959 bags: filthy.
Fennel seed (5 lots), 690 bags: filthy.
Gum Karaya (14 lots), 679 bags: filthy.
Kola nuts (2 lots), 142 bags: filthy.
Laurel leaves, 110 bales: filthy.
Mace (2 lots), 14 cases: filthy.
Nutmegs (16 lots), 1,656 bags: moldy; wormy.
Pimento (3 lots), 343 bags: filthy.
Rauwolfia roots (6 lots), 1,219 bags: name and caution statement not on bags.
Senna leaves, 17 bales: filthy.
Sesame seed, 155 bags: filthy.
Thyme leaves, 75 bags: filthy.

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during February of last year the arrivals were very heavy. This year, buying has been restricted to very conservative quantities and, it was believed that by March 1 the market will have imported substantially less than a year ago. Since the shipping season has only about three months to go, the trade should begin to take a more active interest in covering the year's demand. Prices have settled to a point where good qualities are very reasonable.

Pepper—The spot market declined 3c. on black and 5c. on white last week. India was quick to respond to the increased interest in New York, but here too the advance was orderly and modest. Only small competitive offerings were received on Lampong and Sarawak. However, at the present time, India controls the bulk of the pepper that will be available for shipment during February, March, April and May. There are increasing signs that as long as India is alone in the driver's seat, sellers there will advance their prices quickly on any evidence of sizable demand.

Pimento—Jamaica pimento declined 1c. on spot last week, reflecting slightly easier demand, Mexican pimento also was off 1c. Current quotations on the former were 95c. and on the latter 77c.

Vanilla Beans—The spot market held at extremely firm levels last week. A recent report from Madagascar confirmed an earlier estimate that the 1953/54 crop did not surpass 100 to 110 tons of vanilla beans. During December and January, the bulk of the new crop was purchased by exporters, and according to the last information available there were about 15 tons still in the hands of Chinese curers and about 25 tons in the hands of natives in Andapa.

It was estimated that the tonnage of Vanilla of old crop previous to 1953/54 crop does not exceed 100 tons. It is not easy to know the stock that each exporter has and consequently the trade counts on two figures, the real stocks and the stocks that are called "admitted stocks." In many cases, the so called "admitted stocks" are larger than the real stocks due to the fact that certain importers, in order to obtain a larger credit with their banks, state that their stock figure is higher than it really is. Insofar as the flowering of the 1954/55 crop is concerned, it was very difficult to give precise figures. In certain regions the flowering is definitely superior than in others where flowering is not any heavier than last year.

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Buying interest slackened for oils and fats last week. Withdrawal of export demand for tallow and greases resulted in fractional declines. Soybean oil was stronger due to higher beans, and moderate trading took place in crude at a fractional advance. Some processors have stopped crushing soybeans due to the high cost and scarcity of beans available for prompt delivery. Other crushers were operating on part time basis. Corn and cottonseed oils were unchanged and ruled steady. Interest in peanut oil lagged. Domestic oil was unavailable and offers were restricted to imported oil.

Crude coconut oil was easier and moderate sales were reported at the lower level. Copra also was unsteady and lower.

Tallow and greases developed weakness following reduced export inquiry and slow demand for domestic delivery.

Consuming demand for linseed oil was restricted to withdrawals against former contracts. Prices were unchanged and steady, due to the low cost and slow demand for meal. Trading in refined fish oil was confined to small lots for immediate needs. Interest in old and new crop menhaden oil continued slow and market was merely nominal. CCC turned down all bids for the purchase of government-owned tung oil.

Buying interest in oilmeals continued light for nearby requirements. Cottonseed and soybean were easier and off $1 to $2 per ton. Linseed meal also was quiet and unsettled.

Trading in vegetable waxes was light and spotty. Refined grades of carnauba were in fair request, while crudes continued quiet. German montan wax was scarce and quotations were merely nominal. Japan wax was easy due to lower cost of replacements.

Price Trends

Advanced

Lard, cash, ¾c. per lb.
Oil, linseed, 1.5c. per lb.
Soybean, crude, ½c. per lb.
refd., ½c. per lb.

Reduced

Cocoa butter, 2c. per lb.
Copra, $2.50 per ton.
Cottonseed meal, $2 per ton.
Greases, ¾c. per lb.
Oil, coconut, crude, ½c. per lb.
Soybean meal, $1 per ton.
Tallow, ¾c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 19, 1954
113.22	114.16	112.44	101.91

(For Current Prices see Page 9)

Vegetable Oils

Castor—Moderate demand as reported for domestic grades for prompt delivery. Quotations were without change. Brazilian No. 1 was steady at 13¾c. per pound, tankcars, New York, prompt delivery.

Coconut—Crude was easier and off fractionally. Sales were reported at 12⅜c. per pound, tankcars, f.o.b. Pacific coast, with offers at 12⅝c. At New York, tankcars were available at 13⅞c. per pound, prompt delivery.

Corn—Market was quiet, but steady. Crude was maintained at 13½c. per pound, tankcars, f.o.b. mills. Refined was unchanged at 17c. per pound, tankcars, New York basis.

Cottonseed—Trading in cottonseed oil futures lacked snap last week, but market remained on a steady basis with soybean oil. Speculative trading slackened and hedging pressure also was less active. Consuming demand was slow. Refined salad was quoted at 16¾c. per pound, tankcars, New York basis. Sales of 38 tankcars of crude cottonseed oil were reported at 11.21c. per pound. Gulf ports for export by the New Orleans Commodity Office.

Crude cottonseed oil was well held at 13c. per pound, tankcars, southeast; 12⅞c., Valley 12⅝c. Texas.

CEA reported trading in cottonseed oil futures on all exchanges totaled 87,420,000 pounds in January, compared with 76,200,000 pounds in December and 64,560,000 pounds in January 1954.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended February 18 follow:—

	Sales	Cents per pound High	Low	Close
March	62	15.24	15.10	15.07S
May	40	15.25	15.13	15.23S
July	76	15.30	15.12	15.20S
September	27	15.18	15.02	15.05@15.09
October	5	15.00	15.00	15.00@15.01
December	16	15.05	15.00	15.00S

Total sales, 220 contracts.

Memphis.—Crude cottonseed oil was quoted at 13c. per pound, tankcars, Memphis and crude soybean oil 12⅛c., Decatur. Trading slow. Cottonseed meal offered at $66.50 per ton sacked, Memphis; hulls, $14 per ton bulk and $18 sacked.

Linseed — Market was inactive, but prices were stronger, reflecting the low cost of meal. Withdrawals continued to move in good volume against former contracts. Raw oil was raised to 12.6c. per pound, tankcars, Minneapolis, February-March delivery and 12.8c., April-June.

Minneapolis.—Lower linseed meal costs kept linseed oil prices firm last week. Although most users were covered for nearby, there was the usual amount of replacement buying, crushers said. The open price for raw oil exwarehouse held steady at 12.9c. a pound, in bulk, f.o.b., Minneapolis. Tankcars were unchanged at 12.6c. a pound for February-March delivery and 12.8c. for April-June. Shipping directions tapered off.

Shipment of linseed oil, in pounds, were as follows:—

	1954-55	1953-54
Past week	6,060,000	4,280,000
Since Sept. 1	187,220,000	149,560,000

Flaxseed—Market irregular, but closed firmer. Trading slow.

Minneapolis.—Flaxseed bids bounced around within a range of about 6c. a bushel the past week, hitting a low-point of $3.30 a bushel and advancing to $3.34. There was some liquidation of March futures and buying of May contracts in the futures market. Purchases in the spot cash market totaled 12 cars. Bookings "to-arrive" amounted to 70 cars and about 27,000 bushels in trucklots. Receipts of flaxseed for all accounts for the week ran to 114 cars as against 122 cars the previous week and 123 cars in the like week last year. Shipments from Minneapolis totaled 32 cars as against 30 cars the preceding week and 27 cars a year ago. As yet, no announcement was made of the 1955 flaxseed support price but it is expected to be out by the first part of March, trade observers said.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts 1954-55	Receipts 1953-54	Shipments 1954-55	Shipments 1953-54
Last week.	199,500	218,750	56,000	47,250
Since Sept. 1	18,965,850	13,745,870	4,221,000	2,810,950

Oiticica—Trading lacked snap. Tankcars were unchanged at 14½c. per pound, New York prompt delivery. Drums ranged from 16c. to 16½c. per pound, according to quantity.

Palm—Demand was restricted to small lots for immediate delivery. Clarified was quoted at 13c. to 14c. per pound, drums, spot and 11½c., tankcars, prompt delivery.

Peanut—Domestic crude was unavailable, and imported was quoted at 18¼c. per pound, tankcars, f.o.b. Southeast. Refined oil was unchanged and steady at 21½c. per pound, tankcars, New York basis.

Rapeseed—Market remained steady at 17c. per pound, tankcars, spot and 16½c., March delivery.

Soybean—Market developed a steadier tone, reflecting the shutdown of some processing plants due to the high cost and scarcity of beans. Other producers reduced operations to part time basis. Prices were slightly higher. Crude oil was sold and bid at 12¼c. per pound, tankcars, Decatur, February shipment; 12⅛c., March; April, 12c. asked and May, 11⅞c., nominal. Refined salad oil was higher at 15¼c. per pound, tankcars, New York basis.

Sales and prices of crude soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended February 18 follow:—

	Sales	Cents per pound High	Low	Close
March	6	12.15	12.10	12.18@12.26
May	24	11.92	11.78	11.87@11.95
July	23	11.75	11.65	11.67@11.73
October	2	11.30	11.30	11.30S

Total sales, 55 contracts.

Tung—Conditions in the market were quiet, but steady. CCC was reported to have rejected bids for government owned oil. Prices were maintained at 23¼c. to 23½c. per pound, tankcars, New York, prompt delivery. Last trading was reported at the lower prices. Domestic oil was nominal at 23c. per pound, tankcars, f.o.b. mills. Drums were unchanged at 24¾c. to 25½c. per pound, spot as to quantity.

Los Angeles Vegetable Oils Market

Los Angeles.—Trading in edible oils continued slow.

Following were tankcar prices, f.o.b. Los Angeles unless otherwise designted:—

Castor, No. 1, 21c. per pound, l.c.l., drums included; No. 3, 20¾c. per pound, same basis; dehydrated, bodied, 25.6c. per pound, same basis; dehydrated, unbodied, 24.1c. per pound,

For Late Market Developments, See Page 4

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same basis. Coconut, crude, 12⅝c. February-March. Corn, crude, 13½c. per pound; refined, 17½c. per pound. Cottonseed, crude, 13¼c. per pound, nominal, California; 12⅝c. per pound, nominal, Texas; 12⅞c. per pound Valley; refined, 16¼c. per pound. Linseed, 13.7c. per pound, February-March; 13.9c. per pound April forward. Peanut, crude, 18⅛c. per pound, f.o.b. mill, Southwest; refined, 22c. per pound. Soybean, crude, 12¼c. per pound; refined, 15⅝c. per pound. Tung, 23¼c. per pound, f.o.b. New York.

Miscellaneous

Castor Beans—Shipments were quoted nominally at $100 per ton, f.o.b. Brazilian ports, with buyers' ideas around $105 per ton, c.&f.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	Pounds	
	Beans	Oil
Last week		290.000
Previous week	2.795.100	3.396.000
Corresponding week, 1954	811.500	2.374.000
Total this year	20.015.000	10.216.000
Corresponding period, 1934	17.061.300	4.814.000

Cocoa Butter—Market was weak declining 2c. per pound, spot stocks ranged from 76c. to 85c. per pound, as to quantity.

Copra — Shipments were inactive and lower at $175 per ton, c.i.f. Pacific coast.

Fats and Greases

Greases—This market was easier and fractionally lower. Business slackened appreciably for export. Domestic demand was limited to actual needs. Yellow grease was quoted at 7⅜c. per pound, tankcars, delivered; choice white, all hog, 8¾c.; while not all hog was higher at 8⅝c. House was nominal at 7¼c. and brown, 6¼c., same basis.

Lard—Market was irregular but firmer. Cash lard was quoted at 12.575c. per pound, drums, Chicago.

Oleo Oil—Trading was slow. Extra was unchanged at 15½c. to 16c. per pound, drums as to quantity. Oleo stearine quiet and nominal at 11½c. to 11¾c. per pound, drums, same basis.

Tallow — Slackened export demand weakened this market and prices were off fractionally. Domestic demand was slow and moderate at the lower levels. Bleachable fancy was quoted at 8⅜c. per pound, tankcars, delivered; extra, 8⅛c.; special, 7⅝c.; No. 1, 7¼c. and edible at 10¾c., same basis.

Cake and Meal

Cottonseed Meal — Demand continued light. Prices have been reduced by a few mills, although there is no large surplus of meal at any one point. Meal forty-one percent was offered at $66 per ton, sacked Memphis; $71. North Alabama; $73 Georgia and $71 South Carolina mills for February-March shipment.

Linseed Meal—Market continued easy due to selling pressure and slow demand.

Minneapolis. — Spring-like weather in the livestock feeding belt helped depress linseed meal prices a bit more the past week. Extracted linseed meal was quoted as low as $63.50 a ton, bulk, Minneapolis, but it came back some later in the week. Crushers quoted this meal at $65 a ton, bulk, in carlots, f.o.b., Minneapolis, but resale stuff was available at 50c. a ton lower. The asking price on expeller meal was $69 a ton, bulk, Minneapolis. Wrecking of one of the large extraction plants in Minneapolis by an explosion seemed to have no immediate effect on the market, traders said. This plant was said to have a capacity output of 400 tons per day.

Shipments of linseed meal, in pounds, were as follows:—

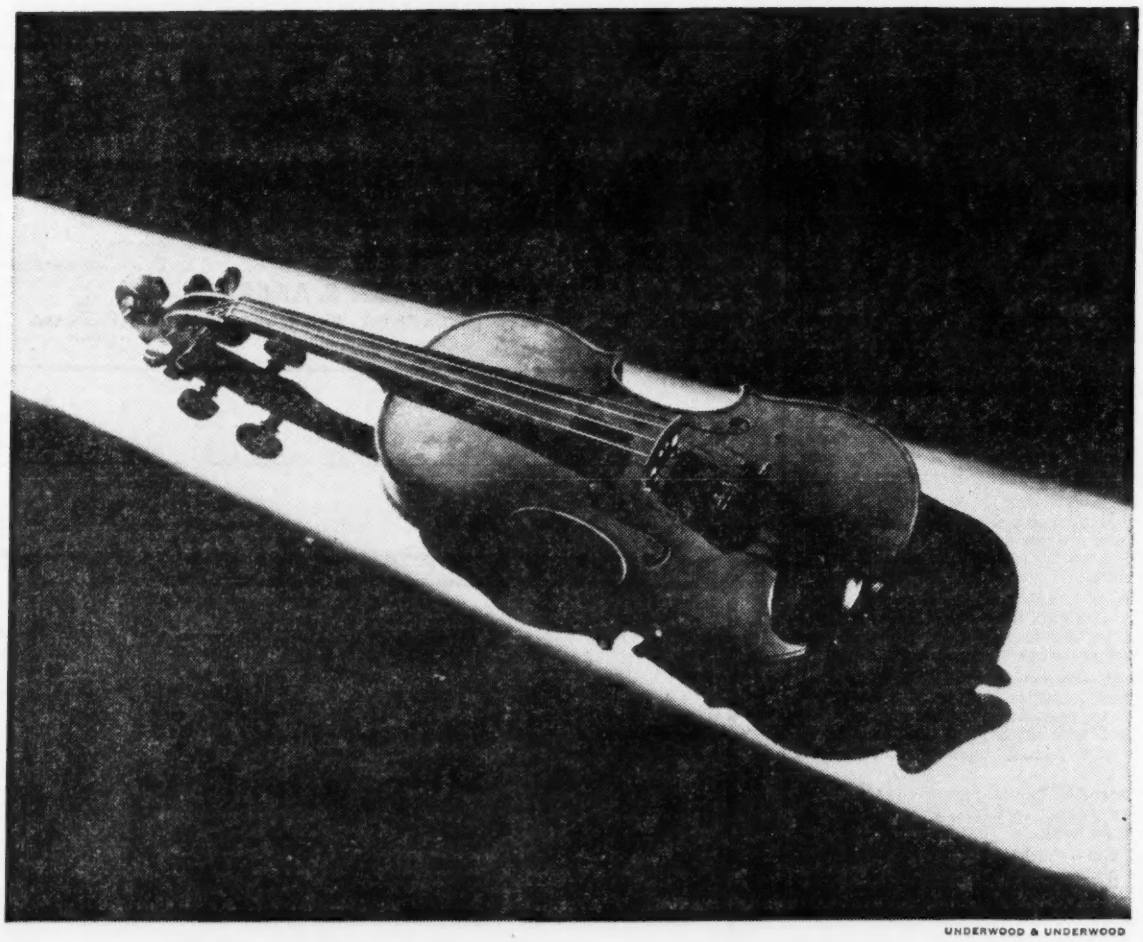
	1954-55	1953-54
Past week	8.760.000	13.180.000
Since Sept. 1	352.680.000	354.390.000

Soybean Meal:—Continued weakness in the bean market, along with slow demand, caused prices to weaken, particularly for nearby shipment. Production of soybean meal in the Mississippi Valley continued heavy, with demand slow. Meal forty-four percent was quoted at $66 per ton for February and $64 March forward, basis Decatur. Southeastern production was quoted at $67 per ton bulk Mississippi Valley points for February-March.

Waxes

Carnauba—Refined grades were in fair request, while interest in crude continued slow. Prices of all grades were without change, despite an advance of 1c. per pound for shipment from Brazil.

Montan—Stocks of German montan wax were scarce and closely held. Last sales were heard at 23c. per pound, spot. Production was sold up. Offers for shipment were nil. Bohemian was unchanged at 13½c. to 14c. per pound, spot as to quantity.



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Color 5¼" Lovibond Yellow	15 max.	15 max.
Color Gardner 1933	2 — 4	2 — 4
Unsaponifiable	0.25%— 0.50%	0.25%— 0.50%
Saponification Value	251 — 258	261 — 270
Acid Value	250 — 257	260 — 269
Iodine Value (WIJS)	7 — 15	7 — 13

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Petroleum Derivatives

Moderation was the keynote over most of the market last week. Sales were reported firm in most products and ample supplies were on hand. No unusual demands from industry were received. Petroleum benzol producers continued their efforts to maintain steady market levels in the face of increasing production from coaltar sources. A minor increase in sales was reported from the domestic cleaning industry. This improved the market balance on cleaner's naphtha, although no difficulty was encountered in filling consumer demand. Lacquer diluents and mineral spirits were beginning to show the effect of the annual spring demand for paints from domestic users. Although increases were not sharp, they were steady. Growing use of odorless paints has caused producers to step up production of odorless solvent material. Despite the minor increases, however, supplies remained in a comfortable position.

Diversification in partial aromatic usage plus the continuing heavy production in the automobile industry resulted in some increase in sales last week. Prices remained steady. Toluol producers indicated the possibility of a soft market in the near future. Competition from the small producers and suppliers is becoming more noticeable. Present conditions were relatively stable. Xylol conditions were considered good. Propane purchases held up well with supplies reported quite adequate in most areas. Los Angeles demand was reported up slightly because of cooler weather conditions in valley and interior areas. Microcrystalline and paraffin products were moving quite well, manufacturers stated. Buying activity was reported brisk, but any additional spurts could easily be accommodated.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Feb. 19, 1954
104.63	104.63	104.75	105.42

(For Current Prices see Page 9)

Solvents and Diluents

Benzol—The demand for this solvent maintained an average pace last week, producers stated. No alarming demands from industry were received and stocks were reported adequate to meet all commitments. It was noted by one supplier that a gradual firming of the market, which had been expected in early 1955, had not yet appeared. No inventory revisions were expected for the weeks ahead. Ample supplies were available to meet present needs. Domestic producers continued their efforts to maintain steady market levels in the face of increasing benzol production from coaltar products. Prices quoted previously were unchanged.

Cleaner's Naphtha—Producers of this aromatic indicated there was no difficulty in fulfilling consumer demands. A minor increase in sales was reported from the domestic cleaning industry. The market, as a whole, was well balanced in regard to supply and demand. Market prices on this material were undisturbed last week.

Lacquer Diluents—The level of buying interest for this material remained stable. Like other related products used in the paint industry this product was expected to gain in sales in the near future, manufacturers stated. Most of the expected rise can be attributed to the annual spring demand for paint from domestic users. Quotations listed previously were unchanged.

Mineral Spirits—A good sales average was noted, according to reports in the industry. Most notable factor influencing this condition was the paint industry's increased demand for odorless solvent material. Paint producers seem to be veering toward the odorless material rather than the standard stoddard solvents, one producer stated. Producers were by no means hard pressed in their efforts to supply consumers, however, and supplies remained in a comfortable position. Prices for regular and specially refined grades were steady at previously listed quotations.

Partial Aromatics—The diversified interest in aromatics by industry in general plus the continuing heavy production in the automobile industry have resulted in a noticeable increase in sales, industry sources stated last week. Prospects of continuing demand in the near future are good, it was also stated. Despite this increased emphasis on the use of aromatics in many industries producers were quick to indicate there was no difficulty in filling orders. No actual shortages were encountered by any suppliers. Prices held steady at previous postings.

Toluol—This market kept abreast of conditions last week. Some producers indicated that this and other related markets might become soft in the near future. Chief reason for this line of thinking was said to be the increasing competition from smaller producers. More and more small, independent producers and suppliers seem to be covering consumers in ever increasing areas, it was stated. However, the supply picture for both large and small producers remained good. Orders were reported being filled from plentiful stocks. The export market remained quiet. Most European users were felt to be well stocked for the immediate future, industry sources said. The price picture remained firm.

Xylol—There were no changes in the market for this aromatic. Producers had sufficient production to meet the immediate needs of the consumer. This market was marked by the same features that have been noted for other aromatics, namely, a reasonably brisk demand combined with easily adequate supplies. Sources in the industry saw no reason to expect basic changes in this balance. Prices remained steady over the past week.

Lighter Fractions

LPG's—Purchases held up well in this group during the past week. Supplies are quite good in most areas. Consumers were being taken care of with comparative ease, industry sources indicated. In the Los Angeles area, demand eased off temporarily due to more favorable weather conditions in valley and interior regions. Contract schedules for propane and butane remained unchanged. Producers noted little increase in sales as a result of the price reduction in propane three weeks ago. No price changes were indicated by the present state of the market, and prices were steady at recently changed levels.

Waxes

Microcrystalline—Most observers considered this market in good shape over the past week. Producers were keeping up with orders and were shipping material on schedule. Filling these orders kept them quite busy, however, because of the present good rate of demand. Buyers were expected to hold firm at present purchasing quotas. This reportedly will keep inventories at a low level. Prices were firm.

Paraffin—Most products in this category were moving quite well, the manufacturers stated. The market was well balanced in regard to supplies and any additional buying activity could be accommodated if it materialized, it was reported. The outlook was felt to indicate a steady or increased rate of business and not for any lowering in the current market pace.

Los Angeles Petroleum Market

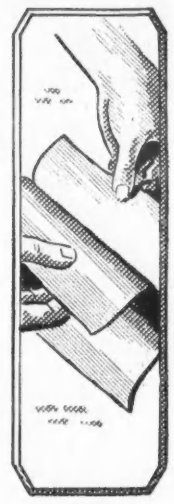
Los Angeles.—Demand for solvents and diluents was well maintained during the week with supplies adequate. Listings remained firm and unchanged from previous reports. Cleaning solvents, including Stoddard, quoted 19.4c. per gallon, 400 gallons or over, ex-tax, f.o.b. Los Angeles Basin area. Lacquer diluents listed 20.4c. per gallon, same basis. Butane and propane witnessed heavy demand over the week with both materials in tight supply.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended February 5 totaled 260,144,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 259,702,000 barrels for the preceding week, this represents an increase of 442,000 barrels in stocks of domestic crude and of 314,000 barrels to stocks of foreign crude.

For Late Market Developments, See Page 4

CERATAK



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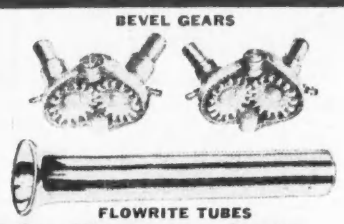

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2—S/S Hersey Rotary Dryers, 5'x26' and 6'x23'.
3—6'6"x50' D. H. Rot. Dryers, 5/8" plate.
2—8'x125' Rotary Kilns.
1—Buflovac 42x120 32x120 Atmos. dbl. Drum Dryers, complete; 1—American 24x36.
3—36"x50" and 1—40"x60" Bird Continuous Centrifugals, S/S Solid bowls.
2—Sharples C-20 & C-27 S/S Super-D-Hydrators.
1—2TH Micropulverizer.
2—1000 gal. Monel, jack., agit., closed kettles.
1—Buflovac 48"x40" Drum Flaker, chrome plated, s/s ends.
1—#28 Devine Vacuum Shelf Dryer, 20—59" x78" Shelves, complete.
3—3'x50' Rotary D. H. Dryers or Coolers.
14—Sperry 18"x18" iron Filter Presses, 11 chambers.
1—50 gal. stainless 347 Calandria Still, agitated, sight glasses, with condenser.
1—50 gal. stainless 347 agitated Tank, M.D.
2—Link-Belt Co. ROTARY DRYERS. Roto-Louvre #502-16, Type C, 5'2" dia. 16' long, with #304 S/S contact parts. #207-10, 2'7" dia. x 10' long, carbon steel construction, and all auxiliaries.
1—Day #30 Imperial jack. Mixer, 75 gal.
3—Anco 4'x9' Chilling Rolls.
3—Colton 5½ single punch Tablet Machines.
3—#12 Sweetland FILTERS, 48 bronze monel covered leaves, 3" c/c.
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7—60 gpm 60' head

7—Lawrence 316 SS Centrifugal
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1—60 gpm 208' head
1—70 gpm 157' head
2—100 gpm 25' head
1—350 gpm 123' head

7—Duriron Centrifugal
4—2½"x1½"
3—1½"x1½"

(All driven with XP motors)

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1—Colonial 316 SS 5,000 gal. 6'6" dia. x 20' long, 25# int.
4—Pfaudler 5,000 gal. glass lined 9' dia. x 9'6" long, 35# int.
1—Pfaudler 2300 gal. glass lined 78" dia. x 96", 50# int.
1—Pfaudler 1200 gal. glass lined 66" dia. x 72" high, 50# int.
1—Pfaudler 500 gal. glass lined 4' dia. x 5', 40# int.
1—316 SS, 13,000 gal. Hopper 18' dia. x 4'4" on the straight side with a 9' cone and 5 HP Lightnin agitator.
1—316 SS 7500 gal. Hopper 12'x6' with 5'6" cone.
3—Steel 8' dia. x 27'3" long, 9000 gal. cap., 25# int.
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1—Stokes 138H Vacuum Shelf with 10—44"x40" shelves.
1—Devine double door Vacuum Shelf with 17—59"x78" shelves.
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1—Day #30 Imperial double arm, 75 gals.
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1—Struthers-Wells 6'x9' S.S. Rotating, jacketed.

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1—Patterson 6'x8' porcelain (Berylite) lined Mill, 50 HP, NEW.
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1—Bird 40" Suspended, 347 S.S., perforated basket, bottom discharge, XP motor.
1—AT&M 40" Suspended, 347 S.S. perforated basket, bottom discharge, TEFC motor.
3—Tolhurst 40", 32", Suspended, steel, perforated basket, bottom discharge, motor driven.
1—Bird 40" Suspended, rubber covered, imperforate basket, bottom discharge, motor driven.
1—AT&M 36" center-slung, rubber covered, perforated basket.

REACTORS

2—Pfaudler 500 gal. glass lined, jacketed, agitated, UNUSED.
1—Struthers-Wells 750 gal., 347 S.S., jacketed, agitated.
1—Buflovak 800 gal., 347 S.S., jacketed, agitated.

FILTERS

2—Oliver 8'x10' Monel Rotary Vacuum.
1—Oliver 8'x6' S.S. Rotary Vacuum, UNUSED.
1—Eimco 8'x8' Rotary Vacuum.
1—Sparkler 33-D-9 Filter, 316 S.S.
1—Sparkler 33-S-17 Filter, Steel.
1—Niagara 140-36 Filter, 140 sq. ft., 316 S.S.
1—Niagara 110-20 Filter with 12 S.S. leaves.
1—Niagara Type Horizontal Filter with 15—48" dia. S.S. leaves, 375 sq. ft.
2—#3 Sweetland S.S. Filters with 12—25" dia. leaves 75 sq. ft.
4—Shriver 36"x36", 30"x30", c.i. Filter Presses, P&F, washing.

MISCELLANEOUS

4—Orville Simpson Rotex Sifters 40"x120", 40"x84", 20"x81".
2—Stokes #DD2 and #D3 Rotary Tablet Machines.

Partial List of Values—Send for News Flash!

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IN CHESTER, PA.

1—Penna. Ring type Granulator, Trojan K3-24, 18" x 36" hopper opening, 40 HP motor.

3—Rotoclone size 20, type W. Exhausters and Dust Collectors, 40 HP motor.

2—Fuller-Kinyon Pumps, 6" type E, with 25 HP motors.

1—Steel Bucket Elevator, 81' H, 16" x 16" x 8" buckets.

2—Screw Conveyors 12" dia. x 60'

1—Drag Conveyor, 8" x 16" x 65'

Lithopone Mfg. Plant

1—Traylor Rotary Kiln, 10'6" D x 105' L x ¾" welded shell.

8—Muffle Furnace Chrome Nickel Alloy Tubes, 24" dia. x 8'6" L.

1—Pivoted Bucket Carrier, 185 lin. ft., 16" x 18" piv. bkts.

1—Allis Ch. Contin. Steel Ball Mill, 6' D x 16' L.

3—Pebble Mills, Contin., 4'6" D x 12' L.

2—Charlotte #50 Colloid Mills.

1—Humbolt Colloid Mill, Jacketed, 50 HP.

1—Bird 36 x 50 Solid Bowl Centrifuge.

1—2000 gal. Stainless Clad Tank.

1—Sperry 30" C.I. P&F Filter, 46 ch., hydr. closer, vis. cl. disch.

2—Richardson Convey-O-Weigh Scales.

3—Trough Belt Conveyors, 22' to 35' L.

5—Pan Conveyors, 12' to 95' L.

1—Bucket Elevator, 95' H—10x6.

Miscel. Equip.—Bins, pumps, blowers, motors, scales, etc.

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2—Rotex Screens, single deck, 40 x 96; 48 x 96.

2—4'6" x 40' Louisville Rot. Steam Tube Dryers.

2—42" x 120" Double Drum Dryers.

300' Screw Conveyor, 9" & 12" dia.

5—Centrifugal Pumps with 10 HP to 30 HP motors—250 GPM to 800 GPM.

1—Nash Hyter Compressor with 20 HP motor.

6—Vertical and Side Entering Agitators, 3 HP to 15 HP.

1—8800 gal. Horiz. Steel Pressure or Vacum Cooker, ASME 85#, with agitator, drive, pump.

10—Copper Tanks. 2800 gal., 2300 gal., 1723 & 1463 gal. cap.

1—Fitz. Model F Comminuting Mach., St. St. 25 HP.

1—Gruendler 36x24 Hammermill.

1—J. B. Hammer Mill, 75 HP.

1—Coppus Steam Turbine, 75 HP.

1—Ing. Rand type 20 Air Compressor, 30 H.P.

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International Type X24 Pebble Mill; 8'x8' with 50 HP direct con. gear motor.
Patterson Buhrstone Lined Pebble Mills; sizes 5'x8', 6'x6', and 6'x8'.
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Readco 210 Gal. Jacketed Heavy Duty Double Ribbon Dry Mixer.
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Lancaster Mix Mullers; Type EAG 3 and EAG 4, complete.
Shriver & Sperry Stainless Filter Presses; 12", 13" and 18".
4041-PI—A. T. & M. 12" Stainless Suspended Type Centrifuge.
3615—GI—Tolhurst 48" Overdriven; perforated Basket; Rubber cov. 10 HP.
1152 Mc—Bird 48" Rubber Cov. Extractor; with 40 HP 2 speed motor.
1152—Mcl—Bird 12" Rubber Lined Centrifuge with extra imperforate Basket.
4042 KI—A. T. & M. Stainless Suspended Centrifuge; 30"x15"; 20 HP.
4093 BII—12A, T. & M. Suspended Type Centrifuges, 40"x24" and 48"x28" bottom solids discharge; with 15 HP motors.
3870M-1—Bird continuous, Conical Centrifugal 18"x28".
385353—Baker Perkins S 12 Cont. Centrifugal Type 316 SS; 7½ HP.
3240 M3—Sharples Supercentrifuge M34-21-IJY S S; 3 HP.
3269—Sharples DeWaxing Centrifuge; Type DM202-23C.
C6-126—DeLaval Yeast Separator Type OVK5 with 7½ HP motor.
3564—Sharples Steel Clarifier Model M4 PIE with 2 HP motor.
658 R 19—Sharples No. 16 Vaporite Type M35 Centrifugal.
4093-B1 — 4 Sharples Super Centrifugals Type M4W-3E7 with 2 HP motors.
4093-B7—9 DeLaval Centrifugals Type 94-11 with 2 HP motors.

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Proctor & Schwartz Soap Chip Dryer.
2—Allbr. Nell 4x9 Atmos Drum Dryers.
1—Buffalo Vac. Drum Dryer, 24"x20".

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4—Tolhurst 40" Suspended Type.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
6—Sharples No. 5A Stainless & #6.
2—De Laval Multi Clarifiers 300 & 301.

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2—American Tool 300 gal. Churns.
1—250 gal. Jacketed Copper Kettle.
Stainless, alum., copper. Glass lined, lead lined and steel kettles and tanks.
Copper & Stainless Varnish Kettles.

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2—Mikro Pulverizers #2TH & 4TH.
Abbe 37"x30" chrome-mang. Ball Mill.
Patterson Pebble Mills, 6'x8', 6'x5', 30' x42".
Abbe 30"x30" & 30"x36". Also Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1—#00 Raymond Mill, 30 HP complete.
2—#0000 Raymond Mills.
Williams #3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters-Lab & up.
Jeffrey 18"x18" single Roll Crusher.
Buchanan 5"x12" Jaw Crusher.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
Houchin 18"x30" 4 Roll Granite Stone Mills.
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Lancaster 6' dia. Vert. Mixer 25 HP.
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STAINLESS STEEL AUTOCLAVES — 1,000 p.s.i.—1 gal.—Agitated.

FEEDER—Syntron F-44-W 10"x104" S S trough w selenium rectifier.

GEARMOTORS—7½ HP — NEW xplosion proof, 350 rpm.

BLENDERS — Ribbon—New—600# capacity —center discharge.

PEBBLE MILLS—24x36—60x48 Porcelain lined—Motorized.

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HAMMER MILLS—Wms. 8x15—24x30 GA 30.

FORK LIFT TRUCKS—7500# cap. Hyster—New engines. Pneumatic tires.

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AIR COMPRESSOR—¾ HP—4 cfm 3 HP—I.R. 20 cfm—w receivers 40 HP Gardner Denver—194 cfm.

HARDINGE MILLS—6x22 & 7x22 Ball—7x48 pebble w motor drives.

BLOWERS/EXHAUSTERS—American—Buffalo—Clarage—Sturtevant 4500 cfm to 40,000 cfm.

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HIF Is Planning Survey On Nation's Health Ideas

The Health Information Foundation has announced that it will sponsor the first nationwide survey ever made to find out how people feel about health facilities, health personnel and voluntary health insurance. The study is expected to reveal people's attitudes and practices regarding all medical services, including dental care, drugs and medications.

The purpose of the study, according to George Bugbee, foundation presiden , "will be to compile data useful to all groups which encourage through education the wisest use of health services and the broadest distribution of medical care." It will be financed through a $100,000 grant by the foundation, a non-profit, fact-finding organization sponsored by 200 leaders in the drug, pharmaceutical, chemical and allied industries.

Research will be conducted by the National Opinion Research Center at the University of Chicago, the independent agency which conducted the foundation's national family survey of medical costs and voluntary health insurance last year. According to the foundation, the family survey showed that an individual's ability to pay for care is only one factor in the degree to which he uses health services. Other factors include his personal interest in care, his knowledge of the value of medical care, his attitudes toward the cost of medical services, the amount of health insurance protection he carries, and the availability of those services in his community. These areas are to be explored in the new study. Results are expected to be ready for publication in eighteen months.

Cyanamid Sales Position to Golder

Thomas J. Golder has been named sales representative for American Cyanamid Company's manufacturers chemicals department in the southeast. His headquarters will be in Atlanta, Ga.

NEW ★ SURPLUS

PARTIAL INVENTORY

AGITATORS—(12) Turbo Mixers, 1 to 10 HP, 85 to 125 RPM.
(4) Lightnin 33G100, XP, 431 RPM.

BLENDER—64 cu. ft., conical, SS, 7½ HP, XP.

CENTRIFUGES—(2) Sharples D2, 316 SS.
(2) 60" Susp., rubber, bottom disch., XP.

CONDENSERS—141 sq. ft., all Everdur.
1100 sq. ft., 6 pass, Admiralty tubes.

CONVEYOR—Dracco, pneumatic, 10 T.P.H.

EVAPORATORS—1750 sq. ft. Buflovak, single effect, forced circulation, rubber lined.

FILTERS—Sparkler 18D6 & 18S23, Stainless.
(2) Shriver, 36" heresite, hydro closers, 20—2" chambers, closed del.
Shriver, 42" wood, hydro closer, 24—2" chambers, closed del.
48" Davis Clearflow, pressure leaf, 10 leaves, 200 sq. ft.

MILLS—Mikro 2DH, 10 HP, TEFC.
Mikro ISH, SS, XP.

REACTORS—(2) Pfaudler 500 gal., jktd., agit.
R-48, 50 PSI #42 glass.

STILL—Barnstead SS100 water, Stainless.

TANKS—Pfaudler & Glascote, open and closed—100, 200, 500, 1000, 2000 gal.
Rubber lined, from 50 to 2500 gal.

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2—300 gal. Type 347 Stainless Steel agitated Kettles—Jacketed.
2—Blaw Knox 250 gal. jacketed autoclaves, agitated.
7—Stokes-Devine & Buflovak 3-4-8 & 17 shelf Vac. Dryers.
3—Ruggles Coles & Hersey Dryers, 3' x 24', 4'6" x 30' Dryers.
21—Shriver & Sperry Filter Presses, 7" to 36" —open & closed Del.
2—7500# Ribbon Blenders.
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1—Robinson 17.5 cu. ft. Jacketed Ribbon Powder Mixer.

4—Pfaudler 50 gal. Glass Lined Jacketed Vacuum Reactors, w/agitator.

1—Nooter 1000 gal. Stainless Steel Type 316 Jacketed Reactors ASME W.P. 50 psi Int. 110 psi Jacket—New.

1—Colonial Iron Works Monel Condenser 338 sq. ft., Shell 50# psi Tubes, 100# psi.

4—Alco 500 sq. ft. Stainless Steel Heat Exchangers.

1—Struthers Wells 480 sq. ft. Hastalloy "B" Heat Exchanger—NEW.

1—Lummus 360 sq. ft. Stainless Steel Type 316 Heat Exchanger.

1—Pfaudler 7 sq. ft. glass-lined Pipe Condenser.

1—Struthers-Wells 1800 gallon steel jacketed vacuum Reactor with impeller type agitator.

1—Paterson-Kelly 1500 gal. steel jacketed Kettle 75 psi, ASME.

1—Struthers Wells cast iron jacketed 800 gal. vacuum Kettle with double motion agitator, working pressure shell 100 psi, jacket 100 psi ASME.

1—Nickel 300 gal. Still.

1—Alloy Fabricator Jacketed Reactor 100 gal. with impeller type agitator, Int. pressure 200 psi, jacket pressure 150 psi.

6—Pfaudler 50 gal. glass-lined Vacuum Receivers (New).

1—Pfaudler 150 gal. Stainless Steel Jacketed Tilting type Kettle with agitator.

Pennsylvania type 304 Stainless Steel Tank, 3000 gals.

5—Stainless Steel 650 gal. Jacketed Closed Kettles with agitators.

1—Bird 18" x 28" continuous Stainless Steel Filter.

1—Sharples type 316 Stainless Steel Super Dehydrator Model C-20.

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1—De Laval type 316 Stainless Steel Multimatic Centrifuge.

1—Fletcher Stainless Steel Suspended Centrifuge with 40" perforated basket.

1—J. H. Day 50 gal. Stainless Steel Jacketed Mixer Sigma Blades.

1—J. H. Day 75 gal. Jacketed Double Arm Sigma Blade Mixer.

6—Simpson Intensive Mixers, #0 and #1.

1—Read Stainless Steel Jacketed Vacuum Mixer, Double Arm Sigma Blades, 10 gal. capacity.

1—Struthers-Wells North Master Mixer, 50 gal. capacity, Double Arm Sigma Blades.

1—Buflovak 32" x 90" Double Drum Dryer Complete.

2—Buflovak Single Door Vacuum Shelf Dryers—20 shelves.

1—Stainless Steel Rotary Vacuum Dryer, 3' x 12'.

2—Devine Single Door Vacuum Shelf Dryers—5 and 10 Shelves.

1—Devine Lab. Vacuum Shelf Dryer—3 Shelves (New).

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S/S Colloid Mills, 3-5 & 15 H.P.
Rotary Blender, 5x5', s/s.

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CENTRIFUGE—48" susp., steel. Complete.
CONDENSERS—S.S., Karbate & Glass, 26 sq. ft. to 1000 sq. ft. surface.
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DRYER, BUFFALO—Double Drum, 32" dia. x 90". Reconditioned.
FILTER—Sweetland #2 all bronze, 18 Leaves.
MIXERS—D. A. SIGMA. Jktd. STEEL AND S.S. 2½, 50, 60, & 200 GALLON.
MIXERS, DRY POWDER — 600, 1000 & 3000 lb.
TANKS—S.S., MONEL, NICKEL. 25 gallon to 5000 gallon.
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Baker Perkins 200 Gal. Jacketed Mixers; Size 17 Type BB/VII; Doible Sigma arms.

H. K. Porter (Type 316 Stainless Steel) 30 cu. ft. Double Ribbon Mixer.

Sprout Waldron Stainless Ribbon Mixer; continuous; 28" diameter x 12' long.

Buflovak Stainless Clad Vacuum Filter Dryer; Jacketed; 78"x58," complete with accessories; print available.

1—Reactor Pfaudler, stainless steel, fully jacketed, agitated, removable bolted disched head; internal working pressure 55 psi; jacket working pressure to 90 psi to 700°F. Is 30" dia. x 24"

1—Kettle, stainless steel, jacketed, agitated. Vessel approx. 20" dia. x 35" deep, jacket 26" deep from bottom up; top has 4" charge port; agitator driven by gear head moter.

1—Filter, Nutsche type, stainless steel, 32" dia. x 18" deep, with perforated stainless steel bottom plate emptying into bottom conical section which has 1" bottom outlet. Agitated by 2-blade stainless agitator, driven by explosion-proof gear head motor; 1/3 hp, 220-440 volt, 3 phase, 60 cycle.

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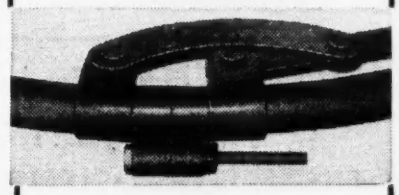

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The only locking ring which combines both of these features.

Write for particulars on this latest development in barrel locking rings.

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NEW AND GOOD-AS-NEW EQUIPMENT

2—Buflovak Double Drum Dryers, 32"x90".
1—Stainless Tank #430 Chrome, vert. 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day Mixer, steam jacketed, 50 gal. Sigma Blade.
1—Robbins Vibrex 3x6 Vibrating Screen, single deck.
1—Copper Evaporator, steam jacketed, 91"x3'9".
60—New Pressure Cookers, 18"x13" & 24"x28".
150—Pumps—steam and electric.
1—New Glass Basin Centrifugal Pump, 600 gpm.
1—Buflovak Jacketed Impregnating Tank 42"x52".
1—4x8 Sturtevant Jaw Crusher.
1—Ribbon type Mixer, steam jacketed.
2—Hardinge Conical Ball Mills, 6'x22".
1—Abbe Ball Mill, 140 gal., Buhrstone lined.
#316 Stainless Steel Tanks, new 100, 200 & 360 gal.
2—Nash Air Compressors, Type AL-623.
1—Manton Gaulin Stainless Homogenizer 125 gph.
2—I&R Vacuum Pumps, 5 H.P., 60' & 100'.
4—New Heat Exchangers, 12" dia. 11' lg., 43 steel tubes, 2 passes.
1—Kennedy-Van Saun Rotary Dryer, 4'x40'.
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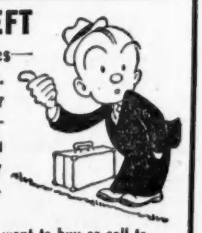

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AEC Is Making Strides

—*Continued from page 5*

olina Chemical Corporation, Nichols, Fla., Construction of another plant is to be started early this year by the U. S. Phosphoric Products Division of the Tennessee Corporation at East Tampa, Fla.

Turning to foreign operations, the agency reported that production from the key Shinkolobwe mine in the Belgian Congo was according to schedule. In South Africa, output was boosted with the completion of added new installations. These facilities, AEC explained, extract uranium from tailings derived from the gold recovery operations of various mines.

In Canada, prospecting continued on an intensive scale both in Saskatchewan and in the eastern provinces. Ore tonnages are being developed in the Pronto and Algom and other properties in the Blind River area of Ontario. Pronto Uranium Company, Ltd., it was stated, plans to build substantial concentrating facilities on its properties.

"The Port Radium operation of Eldorado Mining & Refining Company, Ltd., on Great Bear Lake and the company's Ace mine in the Lake Athabaska region of Saskatchewan continued in steady production," AEC went on. "A further production increase will result from the recently completed enlargement of Eldorado's Beaverlodge leaching plant at Lake Athabaska. The neighboring Verna property is being extensively explored by Eldorado with encouraging results. Gunnar Mines, Ltd., in the Lake Athabaska area, is developing its extensive ore body and constructing a leaching plant."

Australian Situation Noted

Rounding out the foreign picture, AEC noted that in the Northern Territory of Australia the processing plant at Rum Jungle was completed during the last half of 1954 and officially opened for trial runs. Ore is now being processed.

"Widespread exploration activity by private companies continues throughout Australia, and published reports indicate the discovery of a large number of uranium occurrences, some of which may become important sources of uranium," AEC commented.

Here at home, the agency said, there were further increases in domestic ore reserves as a result of new discoveries. Private drilling, it was pointed out, now greatly exceeds that of the government, and there is a stepped-up effort in all phases of the program. Many of the large ore bodies now being discovered and developed, AEC noted, are the direct outgrowth of private exploration efforts.

Total footing of drilling by the government—via AEC, the Geological Survey and the Bureau of Mines—was about 600,000 feet during the second half of 1954. Government drilling in the past two years was at the rate of over 1,000,000 feet a year. Private drilling, however, is on the increase and is now put at more than twice the government figure.

In the area of process development, AEC noted that a number of advances were made during the half-year in processes for recovering uranium from ores and from various types of low-grade sources with greater metallurgical efficiency and economy.

"Work was centered largely in the raw materials development laboratory at Winchester, Mass., and in the pilot plant at Grand Junction, Col., both operated for the AEC by National Lead Company," the agency stated. "The Bureau of Mines station at Salt Lake City, Utah, also is carrying on under AEC contract a process development program including both laboratory and pilot plant investigation.

"In addition, several contractors were engaged in conducting studies which will improve specific process steps that might result in more efficient operations at existing plants on the Colorado Plateau and which may be incorporated into new plants. These include the Battelle Memorial Institute, Arthur D. Little, Inc., Colorado School of Mines Research Foundation, Universities of Nevada and Utah, Dow Chemical Company, Knowles Associates, Inc., Salt Lake City, and the Salt Lake City station of the Bureau of Mines.

"Studies directed toward developing technically and economically feasible methods for extracting uranium from various low-grade sources were conducted at a number of sites. Pilot plant studies by the Tennessee Valley Authority and laboratory studies by International Minerals & Chemical Corporation on the recovery of uranium and phosphates from the leach zone material overlying the commercial phosphate matrix in Florida are continuing. Process studies are continuing at Columbia University on Chattanooga uraniferous shale."

Fats, Oils, Oilseed Exports

—*Continued from page 7*

ceed last year's, the quantity shipped was slightly less. Exports are expected to continue large, and the total for the year is expected to be near last year's record level.

This year's record crop and lower prices of soybeans, coupled with strong foreign demand, boosted exports for July-January to an estimated 35,000,000 bushels, about one-eighth more than last year, and a new record. Soybean oil exports, however, were only about half those of a year ago. Foreign preference to crush beans abroad is one factor; another is the declining price of lard, which consequently is getting the market.

CCC has sold primarily for export most of the 1,500,000,000 pounds of cottonseed oil, crude basis, that it acquired from 1951-54 crops. Exports were heavy in 1953-54 and continue so in 1954-55; July-November shipments this year aggregated 230,000,000 pounds as compared with 36,000,000 last year. In addition to the stimulus of CCC sales at competitive prices, exports are expected to be stimulated in coming months by sales for foreign currencies under public laws 480 and 665.

FDA Urged to Tighten Rules

—*Continued from page 3*

medical advisers and the drug trade and in recent years has become one of the major factors in accidental deaths of children.

The medical literature and the files of the National Office of Vital Statistics, pediatric and public health groups and the FDA contain many reports of fatalaties. In 1952, of a total of 113 fatal salicylate poisonings, eighty-six occurred in children under five years. The available statistics, while actually incomplete, Dr. Holland stated, indicate that the death rate from accidental salicylate ingestion has increased during the past twenty years and now accounts for more accidental deaths from drugs in young children than any other single drug.

Among the drug manufacturing firms represented at the meeting were the following:—Abbott Laboratories; Bayer Company, a division of Sterling Drug; Carroll Dunham Smith Pharmacal Company; Eli Lilly & Co.; McNeil Laboratories, Inc.; Norwich Pharmacal Company; Parke, Davis & Co.; Plough, Inc.; E. R. Squibb & Sons, a division of Olin Mathieson Chemical Corporation; Upjohn Company, and White Laboratories, Inc.

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Pasadena Air Pollution

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ating Vegetation Damage Caused by Air Pollution," Dr. Harris M. Benedict and Dr. William H Breen, Stanford Research Institute; "Air-Borne Oxidants as Plant Damaging Agents," Dr. John T. Middleton, University of California, Riverside, and "Cork Formation in Table Beets in Response to Smog," Dr. Ruth Ann Bobrov, Los Angeles County Air Pollution Control District.

The session on physiological effects of air pollution on animals will include a panel discussion with Dr. Philip Drinker, Harvard University School of Public Health and Dr. Norton Nelson, New York University's Institute of Industrial Medicine, participating. Papers in this session will be:—"Local and Systematic Responses to Experimental Exposure to Atmospheric Pollutants," Dr. Paul Kotin of the University of Southern California. "A method for Studying the Mechanical Properties of the Lungs of "Anesthetized Animals: Application to the Study of Respiratory Irritants," Dr. Mary O. Amdur and Dr. Jere Mead, Harvard University School of Public Health; and "Some Clinical Aspects of the Atmospheric Pollution Problem in London," Dr. Patrick J. Lawther, St. Bartholomew's Hospital, London, England.

Study of Legal Aspects

Four papers will be presented on legal aspects of air pollution. "Some Legal Foundations for Air Pollution Control," will be discussed by Raymond R. Tucker, Mayor of the City of St. Louis and James H. Carter, Smoke Commissioner of St. Louis. Also scheduled for presentation are "Legal Aspects of Air Pollution Control," Alexander Macdonald, Macdonald & Halstead, Los Angeles; "Legal Aspects of Air Pollution," Frank L. Seamans, Smith, Buchanan, Ingersoll, Rodewald, & Eckert, Pittsburgh Pa., and "Scientist-Lawyer Teamwork: A Check List," Malcom Tuft, Brobeck, Phleger & Harrison, San Francisco.

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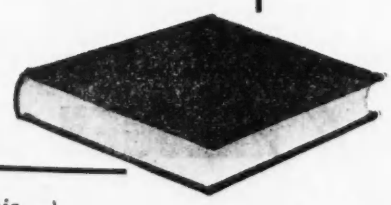

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